REVISED: 5/1/2023



# I AĊBÌ IJÆAÌ A I DBBÌ

## I BẮN ĐỀ Ē L-ÁRĢHĖ ÆI ÁN AĒÆ ÁBĖ ĞAĒ IJ ĎÆBĒN ĎÍCĎÁAN ĐỀ Ē

ĢĦĖÆÍÅÌ

**ĢŦŖŇÛNÚĒ KR ŅÆ** I ŖQŮŅŔÚĊŦŅŊ Ç ŅQ

GTRŇÛNÚÆNUNFŌ TÚRKÆ A QVŇ HNUŒKEI KÔÔBRŰ NF Ė ŌÇË ŌŲÚTHN

**TŘÚNŘŇNŇÍ UNÉ** Ì R R QŲŰ QŪÖ KŦŪQÚU RŌQT KOŠÚU ÚR R ŖŇOÔV Ű ŖŦÞOŘÕ TŦŖTŅŦŪŅU

ÅĖË ĢAĒIJ

ÁRR TKŔVĒKR ŅÆ ÇKR MŌĀ ATŪŪŪŪĀROŖTU ÁRR TKŔV AŇŇŦŅUÆ 2734 SE Raymond St. ĢŖTŪQKŇĄĖ Ħ OŅMŁ M

ÍΙΑ

ÅŖŖ TKŔV ĢÖŖŔŅÆ ŇŁ NĚMNŇĚĿOŃŇ

**BR ŅTÕŅŔNV ĢÖŖŔŅÆ** ĚŖNKŒBR ŅTTÕŅŔNV ĦŖŖR

## IBÁ Ì DÉ ĒMÁEDA ĴA HÆI ĎEBĒ Ì ĎCĎÁA Ì DĚ Ē

ÇDI ĚAÅBĚDE Ç

Ç DI ÁCKULÓÓÐKÚÐRÁÆ Ē ŖÚNOKULÓÓÐIŇ KUÖKVÍKTŇŖÛLB

ĢŖÚŅŔŰĪKQDŅKQŰÖ BÔŨŅNŰJÉ

BVŅU Ë KV NKÛLŅ ŦŅŇŔŅLUŖŦ ŌŦŦŌKÚŌŖŔ

I ÞÁR É KV NKÛLN TKLÖANTKNÞÁR ŐĄŇTVŔŅULĄŖŦŇŅÔDKÚÁR Ő ŖÔÚÖŅ LÞÁR ĎRŐNUÁRÁ É KV NKÛLN KKÛLNKA ŐKUÁTRÁKÚNUÁÐK KQÐTTÐKÚÐR KART ŮRR ÐÁR Ó

ĎŔÖKOKÚŌŖŔ ĒŖŔŅ

ANÛÚN DNKOŰÖ DKVKTŘUÉ

ÅÖTR ŔŌNDNKQŰ DKVKTŇUÉ

I ÞÐÁ NRÁÚKNÚR KV KÖÖTKŮKÚN NUÐJÚÐÁÐ Ö ŇNTR KÚÐÓÐJ

BŔŮŌŖŔŖŊŔÚKQDKVÍKŦŇUÉ

ĒŖUŌÕŔŌÕŌNKŔÚÖKVÍKŦŇU

REVISED: 5/1/2023

## IBÁ Ì DEĒNÆÁ ĖËĢĖI DO DEĒEDŪĒCĖ HËA Ì DEĒĒĒ DĒÇHBÆDŪBĒÌ I

ÅÖŅRŌJKQĒKRŅ	ÅΑΙ Ĺ	ÅŖŔŊŊŔÚŦĸŰŌŖŔ ĦŔŒH	ÇDIDKVÍKTTŇ ÁŖŇŅU	I ÛTT ŒŅF ĦŅNB	BÍ DI ĢA
A OQ VIŇ ĦŅLOŌŘ	ĢŦŖŦŦŌŅÚKŦV	ŃŁ ĚÑŁ	ĒŖŔŅ	Ē EA	Ē EA
Ĭ ŅÕŅÚΚΜΦ) Ė ΦΩ Ì ΤΘΌΧΝΝΤΟΝΙΝ	ŊŁŁĿĚMNĚŊ	ÑŁ ĚŃŁ	ĒŖŔŅ	Ē EA	ĒEA
ĢŦŖTV <b>Q</b> JŔŅÇQVNŖQ	ŇŅĚŇŇĚÑ	ĿĚN	ĒŖŔŅ	Ē EA	Ē EA
I ŌŌŌŖŔŅÆŌŖŲŌŇŅ	L· L· MOŃŇĚŇMĚŇ	NĚŇ	ĒŖŔŅ	Ē EA	Ē EA
I ŌŌŌĀŖŔŅÆŌŖŲŌŇŅ	ĿĿMOMÑĚŁŁĚŊ		ĒŖŔŅ	Ē EA	Ē EA
BŰÖŅŔŅDŖŖŖŢŖŒŊŖŅŦ	OŁŁ MĚŊŊĚŃ	MĚŃ	ĒŖŔŅ	Ē EA	Ē EA

## IBÁ Ì DĒĒ ŃÆCDĒHI Ì A DÆË BAIÍ HBI

BVNUÉ Í KUÖ Ű ŌŰÖ NQIKŔ Ű KÚNF ÔRF KÚQIKUÚĿŇ R ŌŘÛÚNLĿĬĎŌFRŌKÚŌRŔ TNFLŌJÚLĄÕNÚR NŇŌNKQ

KÚÚNŔÚŌRŔB

I ÞÁRÆ ÞÁ NKUN RÔLÞÁR NRRÚKNÚJÚ KUÖ LÞÁR LÖRTRÚĞÖQY Ű TÁÖ LRKT KŔŇ Ű KÚNTB

**TŘŐŅLÚĪŖŔÆ** ÆŖ ŔŖÚŒĨŇÛŊŊŮŖŖ ŌŨĒŶŨĠÇŌŨŊŰ KÚŅŦŖŦŖŌŒŲÚŖŇŦŒĬPĄÕŊÚŖŊŇŌĸĊĶÚÚŊŔÚŌŖŔĠ

## I BẮN VỀ Ē ŇÆCĎHB CỐC DÌ VỀ Ç Ë BAIÍ HBI

#### ĊĎĦB ĊĎC DÌ ĎĒ Ç

**BŲÚTŘOÙĐƯỚKÔË ŅŇŪ**KÆ Í UŅ ÛRKR ĄŇŦV NÖŅR ŌKCRŦ NKŦNŖŔ ŇŪRŲŪŇŅ FÅĖ MGÚR ŅŲÚTŘOŨĐŪÖ ÔT&R ŅLB I TŅNŪKCÇŪRŅ CŌTÖŬŰTŘŐ ĢTRNNŇŮTŅUÆ

> ÁŖŖQNŖŔÚKŌŔŅŦUŅŲTŖUŅŇÚŖÔOKRŅŰŌŰÖŰKÚŅŦBĚŌRŌŰŰÖŅUTŦŅKŇŖÔRKÚŅŦŌKOQĹUŅKŌF LŰTTOŌŅŇŅŢÛŌĪRŅŔÚŌŖŦÔŌÖÖŰŌRÕŌKÚŅŦŌŖŦÔŌPŅLBÆĖĒĖÌÍIBI AÌBĦÌĖBĮÌĎĒÇÍĎIDB

#### Í ŔÛĿÛKÇĊŌĒŊĨ BŲTORUŌŖŔ DKVÁKŦŇĿJÉ

AUŰ ŌŰÖ KOQÛŔUKÚÚTKÚŅŇ ÔKÚUKŔŇ ŖŌQJĄUŖR ŅTŖTŖÛUR KÚŅTŌKOJUÛNÖ KUTKÕUĄTKTŅTĄ ŌKUÛQKÚŌŖŔ ŖŦNOQVŰÖŅŔŰŅÚÚŅŇŰŌŰÖ ÚÖŌŪTTŖŇÛNÚR KVÛŔŇŅTÕŖUTŖŔÚKŔŅŖÛU NRRMÛUÓŌRŔBÊNNTUÛNÖ RKÚNTŌQOŰNOQŮNŔÚŌQÚNŇÚRTTNŮNŔÚTRUUŌVOQJÖNKÚMŌQŇÛTB

DKVÁCTŇRÛU ÁRR MÛULÍTRÁ GTRŇÛNLUÉ

REVISED: 5/1/2023

IR RÞŅAĖ ŲŌŇŅURÔNKŦMRŔB

#### CĚAË Ë AÅDĚD IJ ĢHĖ ĢBHÌ DBI

ĊOKR R KMOŅĚŌR ŌÚJŌK AŌFÆ

Í TTŅF Ē EÆ ĚŖŰŅF Ē EÆ

## I BÁÌ DÉ Ē ÑÆAÁÁĎÆBĒÌ AĚ HBĚBAI BË BAIÍ HBI

**ĢŅĦĿŖŔĸQĢŦŊŊĸÛĹŌŖŔĿĿ**ŒŖŊŊŢŢŊŖŢŎŊĸŰĸvĠŖŖĸŔŇÛŢŰĸŦŇŖÔIJŢŌŌQŎŅĸÞB **BŔŮŌŦĸŔĸŊŔĹĸQĢŦŊŊĸŨĹŌŖŔĿĿ**Œ

GTNŮNŔÚÔĐTŰNF QNKÞKÕN RF UT ŌQKÕN ŌŨLKÔN ÚR, ŇR LRBGTNŮNŔÚTTRŇÛNÚLÔTRR

ŅŔÚŅŦŌŘÕŇŦĸŌŘĿĿ

ÆŖŔŖÚÔĐŨŲĊĬŌŘÚŖŴŦÔKŊŊŰKÚŅŦŖŦĿĸŔŌĎKŦVĿŊŰŅŦĿVĿÚŅŖŇŦKŌŘĿĿ

**Ë ŅLÖŖŇUŌŖŦÁŖŔĹKŌŘR ŅŔÚ**ĘĢŦŅŮŅŔÚUTŌŌQŅŇ R KÚŅĦŌKOĴŦŖR UTŦŊKŇŌŘÕM ÛUŌŘÕKTTŦŖTŦŌKÚŅ NRŔĹKŌŘR NŔÚ£MKŦĦŌJĦĿLU RKÞÛT ŰŌĬĎŌŘNĦÚKMLRŦMNŔÚR KÚNĦŌKOQ

## I BÁÌ DE E NÆDAĒÆEDĒÇ AĒÆIÌ ĖĦAÇB

**ĢŦŅNKÛLŪŖŔĿĿ** ĦŅKŇ KŔŇ ŖMĿŅŦŮŊ KŒŒŢŦŅNKÛLŪŖŔUŖŔ LŰÖŊ TŦŖŇÛNĹŒĶMŅQ

Í KƯỚ ÖK ŚNU KỐƯN T ÛUN

ĎR R ŅŦUŅ NŖŔÚKR ŌŠKÚŅŇ ŦKÕUŌŠ Ű KÚŅŦ

## I BÁ Ì DÈ Ē ŊÆBĮĢĖ I Í HBÁ ĖĒ Ì HĖ ĚI EĢBHI ĖĒ AĚ ĢHĖ Ì BÁ Ì DÈĒ

ĢBĦI Ė Ē AĚ ĢĦĖ Ì BẮÌ ĎĖ Ē

GTRÚNÍÐIN Ç QBŮNUÉ Í UN NÖNR ŌKOÐNUÐÍKŔÚ ÖQBŮNUÐ ÓŘ NNŇNŇAÚR KŮRÐĪ TÆRQRÉÐNŇ RFÆNTNKÚNŇ UÞÐÍ NRŔÚKNÚB

BVN GTRÚNÚRÁE I KÔNÚ ČOKUNU TÔNNN NRÁÚK NÚ TŪ TĀNOVADNO ČRŮŘÚK TŘ. LÖR Ũ TŮ NN KNYNU TOVOB

BĒÇĪĒ BBĦĪĒÇ ĀĖĒÌ ĦĖĚI

Ĭ ŅŔŰŌŒĶŰŖŔÆ ΑΝ̈ŅŢÛΚÚŅ ŮŅŔŰŌŒĶŰŖŔ LÖŖÛŎŬ MŅ ΤŦŖŮĎŇŅŇ LŖ ŰÖΚÚŅŲTŖLÛŦŊ ŒŌR ŌŪUKŦŅ ŔŖÚŅŲNŅŅŇŅŇΒ DVÕŌŅŔŅÆ ΑΦŰ ΚVUŖMUŅTŮŅ ÕŖŖŇ ΤŅŦĿŖŔΚΟĊŬVÕŌŅŔŅ R ŅKLÛŦŅĿŲLÛNÖ KUŰ KLÖŌŔŎ KŌŨŅŦ ÖKŔŇŒŎŔŎ ŰÖŅ

R KÚNTŪKOKŔŇ MŅÔŖŦŊ ŅKÚŌŘŎĄŇŦŌŘÞŌŘŐ KŔŇEŖŦ LR ŖÞŌŘÕB

BUTRUÛTN Ç ÛĞÎNÇÎRNUÉ Ē EÆ

**Ė ÚÖNFÆ** ÅÖNR ŌKQFNUŌLÚKŔÚNDŁÚÖŌŔÕ ŌJTNNRR R NŔŇŊŇB

ĒĖÌBAĖÖŅQNŮŅCRÔTTRÚNNŪRŔKŔŇÚVTŅUŖÔNŖŔÚTRQUŔŅNŅULKTVŰŌDQŮKTVŇŅTŅŔŇŌKÕÛTŖŔTŖÚŅŔÚŌKCŅŲTŖÚŪTŅ NŖŔŇŌŪŌŖŔUB REVISED: 5/1/2023

## I BẮÌ ỮE Ē OÆĢDIJI ထိA Ě A ĒÆ ÁDBË ထÁA Ě ĢHĖ ĢBHÌ ĎBI

Ç BĒ BĦAĚ ĎĒ ČĖ ĦË AÌ ĎĒ Ē

ĢÖVLÖKQ ÚKÚŅÆÇŅQĊŖŦRÆÅQJKŦÅŖQŧÆAR MŅF

É ŇRŦÆ ÅŒŔŇŰŌŐĠUŌÕÖÚNÖKŦĸŊĹŊŦŌĹŌŊŖŇŖŦ

**Ė ŇRŦÌ ÖŦŊĿÜŖQ̇́V**Æ Ē EÆ

#### DE GEHÎ AÊ Î DBAÊÎ DAI ACBÎ IJAAÊÆBÊ Î DHÊ ĒË BĒ Î AĚ DĒ CË HË AÎ DE Ē

ÅŖŌŌŌŘŎĠŖŌŘÚÉ Ē EÆ Ë ŅOŌŌŘŎĠŖŌŘÚÉ Ē EÆ ĊĦŅŊŎŌŘŎĠŖŌŘÚÉ Ē EÆ Ĭ KTŖŦĢĦŊĿLÛĦŅÆ Ē EÆ Ĭ KTŖŦÆŊŔŪŌŨÆ Ē EÆ

ITŅNÕÕÕIÇTKŮÕÕVÆ FDMĖ ŚĿGÆLBLMÑ

**BŮKT ŖŦKÚĪŖŔ ĦKÚŅÆ** FŔĚMÛÚ/QKNŅÚKÚŅ Ś Ŀ GÆĒ EÆ

I ROQÛNĀDĀVĀK İ KÚŅFÆ ĒŅÕÕÕÕĀŅ
I ROQŨUMVI ŅÕÕÕÜÆ ĿŁŁŔ
Ĭ ROQÚĀQĀE ĒEA
Ë ROQNÛQQFI ŅÕÕÕÜÆ ĒEA
Ĭ ÕUNRUÕUÆ

COCCÜ GROTEÚÉ Š ON °C EMŁŁ°F

## I BẮN VỀ Ē LEŁÆI Ì A Ẩ VỀ TỔ LỊ A ĒÆ ĦBA ẮN TỔ TỔ LỊ

I ÚKMÖDŐVÆ Ë KÚNFÖKOÐJUÚKMONJ ÛŔŇNF ŔRŦR KONRŔŇŌÓÐRŔU

ÁRÁNŐJÁRÁUÚR AŮRŐŠVÉ AŮRŐŇ ÖNKÚJUTKTÞUJRTNÁ ÓÐAR NUKÁŇ RÚÖNF ÖÐÁRÓJÁRÁ URÚTNNU

Ë KÚŅTŪKQUÚŖ AŮŖŌŇÆ IÚŢŖŔÕŖŲŨŇŪŃĮŒU DKVÍKTŇŖÛUÆNNRR TRUŌŪŪŖŔ RŦÅŌĞĢTRŇÛNÚUÆ

Ë KÚŅTĀKQŇŖŅUŔŖÚŇŅNŖR TŖUŅ KÚKR MĀŅŔÚÚŅR TŅTKÚĴTŅU

GRUJOVIJOÚV RÔDKVÍKTŇRŮUHNKNÚJRKUÉ

DKVKTŇŖÛUTŖQVRŅĦŌVKÚŌŖŔŰŌQQŔŖÚŖNNÛŦ

## I BÁ Ì DE Ē L·L·Æ Ė Į DĀĖ ĚĖ Ç DĀAĚ DĒ CĖ ĦË AÌ DE Ē

## ĎĒCĖ HË AÌ ĎĒĒĖĒÌĖĮ ĎÅĖĚĖÇ ĎÅAĚ BCĊBÅÌI

**ĎŘÖKOKÚĪŖŔÆ** ĎŘÖKOKÚŪŖŔ ŖÔÔŌĒŅR ŌLÚR KV KÔÔŊNÚŦŅUTŌŦKÚŖŦV UVUŅR

TRŮÚN RÔNUT RUÛTIN ÔRT ÚÖÐUR KÚNTÐKQÐ ÐRNÚLÚTÐKQÛLNB

I ÞÁRÆ É KV NKÛLN Ð FTÐ KÚÐR Á ÁR LNÍ LÐ ÓÐ Ð TRUÐ ÁÐ TRUÐ ÁÐ TRUÐ Á ÖNN NUT RLÚFN

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BVNNÉ I ŅTĪĢĪ ÛU BVŅÆKR KÕŅEĎTTÕKÚĪŖŔÆË KV NKÛUŅR ŌŎĂĄUÖŖTŪĚOKUŪĪRÕ ŇŌŪNŖR ŌŖTÚÚŖ ŅMŅU.

ÅKUŅŇ

RÁ ÚNLÚŇKÚK ÔRT LÚTŮNÚTKODY LŌR ŌDKTR KÚŅTŌKODBÌ ŅLÚTLGŅŢÛŌŮKODKÚRT LŌR ŌDKTÚR È BẮÆ

ÇÛ**ŌŇŅŒ**ÑŅ ŃŁŇ

## I BẮN DẾ Ē L'MÁBẮ LỆ Ç DẮA LẮ DỄ CĖ HỆ AÌ DỀ Ē

BẮĖ ĚĖ C ĎÁAĚ ĎĒ CĖ HË AÌ ĎĒ Ē

BNRÚRUŌJŌVÆ ĒŖŌŠÔŖŦR KÚĪRŔ KŮKŌXIMON

ĢBĦI ĎÌ BĒ ÅB AĒÆË Ė ÅŒĎ IJÆ

 ÅŌŖŇŅÕĦKŇKÚŌŖŔÆ
 ĒŖŌKÔŖĦKÚŌŖŔKŮKŌŪKMOŅ

 DVŇĦŖOŲLŪDÆ
 ĒŖŌKÔŖĦKÚŌŖŔKŮKŌŪKMOŅ

 ĢÖRÚROŲLŪDÆ
 ĒŖŌKÔŖĦKÚŌŖŔKŮKŌŪKMOŅ

## IBÁ Ì DÈ ĒL·NÆÆDĎ ĢĖIA Ě Á ĖĒI ĎEBHA Ì DĖĒI

ĒĖÌBÁZEŌJTŖUKOŢŅNŖRRŅŔŇKÚŌŖŔUMKUŅŇŖŔRKÚŅŦŌKOŢKULÚTTOŌŅŇBZEŌJTŖUKOŖÛLÚMŅŌKKNŖŦŇKŔNŅŰŌŨÖNÛŦŦŅŔÚ KTTOŌJKMOŅOKŰUKŔŇŦŅÕŨOKÚŌŖŔĿŅKŔŇRKÚŅŦŌKOŅÖKŦKNÚŅŦŌLŰŌJUKÚŰÖŅÚŌRŅŖÔŇŌJTŖUKOŖ

i kuún æðut rukaæ Gtrinúnúðu luðók man órt múttæðið ék ká nándrunni nrá útræanni múttánt órt óðina.

ŮKQĴŅŖŦŇŌJTŖUKQ

HÁHA DÁ ÓRATR KUÐRÁRÆ ĒĖÌA HÁHA DAĴAHÆĖÍII AIÌBBI ÖNŔ ŇŌDNKTŇNŇ ŌK ŌŪUT ÛTNÖKUNŇ ÔRTR LŰÖÐUR KÚNFŌKO.

I RÛQĂ ŔŖÚMŅ ŦŊÕÛQKÚŊŇ KUK ĦÅĦA DKVÍKŦŇŖÛUŰ KUÚŅ ÛŔŇŅŦ ŃOÅĊĦ MÑĿBÅKŔ MN

OXÁŇÔŌONŇ

RŦŌŔŊŌŔŊŦĸĹŊŇŰÖŊŔŌŔŊŖŖŢŌŌĸŔŊŊŰŌŎÖŌŖŊĸŎŢŊÕŨŌĸĹŌŖŔĿĿ

BR TÚV ÁRÁÚKOŘNFÆ BR TÚV NRÁÚKOŘNFU LÖRÛQŇ MN ÚK ÞNÁ ÓRF ORNKOFNINNNOOŘ ŐA FININRŮNFV RFŰ KUÚN ŇOUTRUKOR

## I BẮN ĐỀ Ē L'NÁ HAĒ I ĢĖ HÌ DĒ CĖ HË AÌ DĒ Ē

ĚAĒÆFÆĖÌG

Ē ŖÚŦŊÕÛŒŲŃŇ

IBA FĂË ÆÇG

Ē ŖÚŦŊÕÛŒŲÚŊŇ

AĎĦ FĎAÌ AG

Ē ŖÚŦŊÕÛŒŲŃŇ

SAFETY DATA SHEET: Solvent Free Gel REVISED: 5/1/2023

## I BÁ Ì DÈ Ē L'ŇÆHBÇ Í ĚA Ì Ė ĦIJ DĒ CĖ HË A Ì DÈ Ē

### Í BIB CBÆBHA Ě HBÇÍ ĚA Ì DĚ ĒIÌI ÁA FÌĖ Į DÁIÍ ÅIÌA Ē ÁB Á ĖĒÌHĖ Ě A ÁÌGÆ

Ì ÖÐUR KÚ,NTÐKONR,NUÁR,ÚNR, KÚKÐÁ KÁV NRR TRÁNKÚU ÚÖKÚKTN, LÚMP,NNÚÚR, ÚÖN Í IÌR ĻÐN I ÚMLÍKÁNNUANÚ

FÌ I ÅAGI NNÚTRÁ L'MAMGNUT RTÚŔRÚTÔÐOKÚTRÁ TINT ÛÐINR NŔÚLB

ÅBHÅĚA FÅĖË ĢHBDBĒI DĎB HBI ĢĖĒIB ÅĖË ĢBĒIA Ì DĖĒ ĄAĒÆ ĚĎA ÅDĚDĎIJA ÅÌ GÆ

I AHA Ì DI ĚB DÍĐƠ HÍ GBH CÍ ĒÆ AË BĒÆË BĒÌI AĒÆ HBAÍÌ DĒ HOJ AÌ DĒĒ AĀÌ GÆ

NL·L·ENL·MDAĴ AĦÆ ÅAÌ BÇĖ ĦĎBIÆANÛÚŅ KŔŇ ÅÖTŖŔŌNDŅKOŰŌĄĊŌŊ

NL:N ĦBĢĖ ĦÌ AÅĚB ĎĒ Ç ĦBÆĎBĒ Ì I ÆĒ ŖŔŅ

IÌ AÌ B HBÇÍ ĚAÌ DĚ Ē IÆ Ē ŖŔŅ ÔŖÛŔŇ DĚ Ì BHĒ AÌ DĚ Ē AĚ HBÇÍ ĚAÌ DĚ Ē IÆ Ē ŖŔŅ ÔŖÛŔŇ

### I BẮN ĐỀ Ē ĿÑÆĖ Ì DBH ĐỀ CĖ HË AÌ ĐỀ Ē

Ē ĊĢA DKVÍKTĪŇ ÁOKUJOÖÐIKÚŌRŘÆ DË ĎI DKVÍKTĪŇ ÁOKUJOÖÐIKÚŌRŘÆ

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## SAFETY DATA SHEET



1. Identification

Product identifier **Cold Wax Medium** 

Other means of identification

To mix with artist's oil paints to modify working properties. To use as a matte final surface for oil Recommended use

paintings. To use as a matting agent for varnishes and painting mediums.

Recommended restrictions Do not heat.

Manufacturer/Importer/Supplier/Distributor information Gamblin Artists Colors Manufacturer/Supplier 2734 SE Raymond St. Portland, OR 97202

USA

+1 503-235-1945 Telephone number

www.gamblincolors.com Website

**Emergency Telephone** 

For Chemical Emergency ONLY, call:

Number

**DETAILS OF DISTRIBUTOR** 

Company Name: Rossdale Pty Ltd

351-353 Warrigal Road, Cheltenham 3192 Australia Company Address:

+1 503-235-1945

Company Phone: (03) 9583 4411 Fax: (03) 9583 4399

**EMERGENCY TELEPHONE NUMBERS** 

Posions Information: 13 11 26

2. Hazard(s) identification

Physical hazards Flammable liquids Category 4

Health hazards Not classified. **OSHA** defined hazards Not classified.

Label elements

Hazard symbol None. Signal word Warning

**Hazard statement** Combustible liquid.

Precautionary statement

Prevention Keep away from flames and hot surfaces. - No smoking. Wear protective gloves/protective

clothing/eye protection/face protection.

In case of fire: Use appropriate media to extinguish. Response

Storage Store in a well-ventilated place. Keep cool.

Dispose of waste and residues in accordance with local authority requirements. Disposal

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

**Mixtures** 

Chemical name	CAS number	%
Beeswax	8012-89-3	40 - 60
Petroleum Naptha	64742-48-9	40 - 60
Alkyd Resin	Proprietary	5 - 15

4. First-aid measures

Cold Wax Medium

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

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SDS US

Most important symptoms/effects, acute and delayed

Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

Suitable extinguishing media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

Combustible liquid.

#### Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Use water spray to reduce vapors or divert vapor cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear protective gloves.

Cold Wax Medium SDS US 2/7 Skin protection

Other Wear appropriate chemical resistant clothing.

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

#### **Appearance**

Flash point

Liquid. Physical state Paste. Form Color White. Odor Mild wax. Odor threshold Not available. Not available. Hq

Initial boiling point and boiling

Melting point/freezing point

range

318 - 390 °F (158.89 - 198.89 °C)

> 158.0 °F (> 70.0 °C) Pensky-Martens Closed Cup

0.2 **Evaporation rate** 

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

0.7%

Flammability limit - upper

(%)

5.3 %

Explosive limit - lower (%) Explosive limit - upper (%)

Not available.

Not available.

Not available. < 0.1 kPa @ 68°F (20°C) (mmHg)

Vapor pressure

Vapor density

5 @10101 kPa (calculated)

Relative density

0.8 - 0.9

Solubility(ies)

Solubility (water)

Negligible.

Partition coefficient

Not available.

(n-octanol/water)

635 °F (335 °C)

Auto-ignition temperature Decomposition temperature

Not available.

Viscosity

Paste

Viscosity temperature

104 °F (40 °C)

Other information

Not explosive. Explosive properties Oxidizing properties Not oxidizing. < 450 g/l VOC

#### 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Material is stable under normal conditions. Chemical stability

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

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Incompatible materials

Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

#### 11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Prolonged skin contact may cause temporary irritation.

Direct contact with eyes may cause temporary irritation. Eve contact

Ingestion May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Exposure may cause temporary irritation, redness, or discomfort.

Information on toxicological effects

Acute toxicity

Species Test Results Components

Petroleum Naptha (CAS 64742-48-9)

Acute

Dermal

Liquid

LD50 Rabbit > 5000 mg/kg

Inhalation

Vapor

LC50 Rat > 5000 mg/m<sup>3</sup>, 4 hr

Oral Liquid

LD50 Rat > 5000 mg/kg

Prolonged skin contact may cause temporary irritation. Skin corrosion/irritation

Serious eye damage/eye

Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Not a respiratory sensitizer. Respiratory sensitization

This product is not expected to cause skin sensitization. Skin sensitization

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Petroleum Naptha (CAS 64742-48-9) 3 Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

Not classified.

repeated exposure Aspiration hazard

Not an aspiration hazard.

12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Cold Wax Medium SDS US 4/7

**Test Results** Components Species Petroleum Naptha (CAS 64742-48-9) Aquatic Acute EL0 Algae Pseudokirchnerella subcapitata 1000 mg/l, 72 hr **NOELR** Pseudokirchnerella subcapitata 1000 mg/l, 72 hr Crustacea EL0 Daphnia magna 1000 mg/l, 48 hr Fish LL<sub>0</sub> Oncorhynchus mykiss 1000 mg/l, 96 hr Chronic Crustacea **NOELR** Daphnia magna 1 mg/l, 21 d No data is available on the degradability of any ingredients in the mixture. Persistence and degradability Bioaccumulative potential No data available. Mobility in soil

The product is insoluble in water.

Other adverse effects

The product contains volatile organic compounds which have a photochemical ozone creation

potential.

#### 13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of Disposal instructions

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose in accordance with local regulations. Empty containers or liners may retain some product

residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

#### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

#### ADG (Australian Dangerous Goods) Not regulated

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

#### 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Toxic Substances Control Act (TSCA)

All components of the mixture on the TSCA 8(b) inventory are designated "active".

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

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SARA 311/312 Hazardous Yes

chemical

Classified hazard Flammable (gases, aerosols, liquids, or solids)

categories

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### **US state regulations**

#### US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed

US. Pennsylvania Worker and Community Right-to-Know Law

Petroleum Naptha (CAS 64742-48-9)

US. Rhode Island RTK

Not regulated.

#### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Petroleum Naptha (CAS 64742-48-9)

This material is not subject to the following international agrements:

Montreal Protocol (Ozone depleting substances)

The Stockholm Convention (persistent organic Pollutants)

The Rotterdam Convention (Prior Informed Consent)

Basel Convention for the Prevention of Polution from Ships (MARPOL)

Inventory name

This material/consitute(s) is covered by the following requirements:

All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

#### International Inventories

Country(s) or region

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
	mplies with the inventory requirements administered by the governing country(s).	siniatava d bu tha mauannin n

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

Issue date19-March-2020Revision date02-May-2023

Version # 04
HMIS® ratings Health: 1

Flammability: 2 Physical hazard: 0

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On inventory (yes/no)\*

#### NFPA ratings



#### List of abbreviations

EC50: Effective Concentration, 50%.

LC50: Lethal Concentration, 50%.

LD50: Lethal Dose, 50%.

STEL: Short-Term Exposure Limit. TWA: Time Weighted Average Value.

EL0: Effective level, 0%.

IC50: Inhibitory concentration, 50%.

LL0: Lethal level, 0%.

NOELR: No Observed Effect Loading Rate

#### Disclaimer

The information in this Safety Data Sheet has been obtained from current and reliable sources. However, the data is provided without warranty, express or implied, regarding its correctness or accuracy. It is the user's responsibility to determine safe conditions for use of this product and to assume liability for loss injury, damage, or expense resulting from improper use of this product.

Cold Wax Medium SDS US

### SAFETY DATA SHEET



#### 1. Identification

Product identifier **Galkyd Lite** Other means of identification None.

Mixing agent for artist's oil colors. Recommended use

Keep out of reach of children. Recommended restrictions Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier Gamblin Artists Colors 2734 SE Raymond St. Portland, OR 97202

USA

+1 503-235-1945 Telephone number

Website www.gamblincolors.com

**Emergency Telephone** For Chemical Emergency ONLY, call:

Number

+1 503-235-1945

**DETAILS OF DISTRIBUTOR** 

Company Name: Rossdale Pty Ltd

351-353 Warrigal Road, Cheltenham 3192 Australia Company Address:

Company Phone: (03) 9583 4411 Fax: (03) 9583 4399

**EMERGENCY TELEPHONE NUMBERS** 

Posions Information: 13 11 26

2. Hazard(s) identification

Flammable liquids Category 4 Physical hazards

Health hazards Not classified. **OSHA** defined hazards Not classified.

Label elements

None. Hazard symbol Signal word Warning

**Hazard statement** Combustible liquid.

Precautionary statement

Keep away from flames and hot surfaces. - No smoking. Wear protective gloves/protective Prevention

clothing/eye protection/face protection.

Response In case of fire: Use appropriate media to extinguish.

Storage Store in a well-ventilated place. Keep cool.

None known.

Dispose of waste and residues in accordance with local authority requirements. Disposal

Hazard(s) not otherwise

classified (HNOC)

Supplemental information None.

3. Composition/information on ingredients

**Mixtures** 

Chemical name **CAS** number % 40 - 60 Alkyd Resin Proprietary 64742-48-9 40 - 60 Petroleum Naptha

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Galkyd Lite

Most important symptoms/effects, acute and delayed

Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

Suitable extinguishing media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

Combustible liquid.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Use water spray to reduce vapors or divert vapor cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear protective gloves.

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Skin protection

Other Wear appropriate chemical resistant clothing.

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

**Appearance** 

Liquid. Physical state Liquid. Form Color Amber.

Odor Characteristic hydrocarbon.

Odor threshold Not available. Not available. Hq Not available. Melting point/freezing point Not available. Initial boiling point and boiling

range Flash point

149.0 °F (65.0 °C) Pensky-Martens Closed Cup

< 1 **Evaporation rate** 

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

< 0.1 kPa @ 68°F (20°C) Vapor pressure

Vapor density

Not available. Relative density

Solubility(ies)

Solubility (water) Negligible. Not available. Partition coefficient

(n-octanol/water)

446 °F (230 °C) Auto-ignition temperature

Decomposition temperature Not available. 62 mm<sup>2</sup>/s Viscosity

104 °F (40 °C) Viscosity temperature

Other information

Not explosive. Explosive properties Oxidizing properties Not oxidizing.

### 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Material is stable under normal conditions. Chemical stability

Possibility of hazardous No dangerous reaction known under conditions of normal use.

reactions

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

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SDS US

Hazardous decomposition

No hazardous decomposition products are known.

products

#### 11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Prolonged skin contact may cause temporary irritation.

Direct contact with eyes may cause temporary irritation. Eye contact

Ingestion May cause discomfort if swallowed.

Symptoms related to the

Exposure may cause temporary irritation, redness, or discomfort.

physical, chemical and toxicological characteristics

#### Information on toxicological effects

Acute toxicity

**Test Results** Components Species

Petroleum Naptha (CAS 64742-48-9)

Acute

Dermal

Liquid

LD50 Rabbit > 5000 mg/kg

Inhalation

Vapor

LC50 Rat > 5000 mg/m<sup>3</sup>, 4 hr

Oral Liquid

LD50 Rat > 5000 mg/kg

Skin corrosion/irritation Serious eye damage/eye

irritation

Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Not a respiratory sensitizer. Respiratory sensitization

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Petroleum Naptha (CAS 64742-48-9) 3 Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Galkyd Lite

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

SDS US

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Components Species Test Results Petroleum Naptha (CAS 64742-48-9) Aquatic Acute Algae EL0 Pseudokirchnerella subcapitata 1000 mg/l, 72 hr **NOELR** Pseudokirchnerella subcapitata 1000 mg/l, 72 hr EL0 1000 mg/l, 48 hr Crustacea Daphnia magna 1000 mg/l, 96 hr Fish LL<sub>0</sub> Oncorhynchus mykiss Chronic Crustacea **NOELR** Daphnia magna 1 mg/l, 21 d Persistence and degradability No data is available on the degradability of any ingredients in the mixture. Bioaccumulative potential No data available. The product is insoluble in water. Mobility in soil

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

#### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

ADG

Not regulated as danderous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

#### 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not established.

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Toxic Substances Control Act (TSCA)

All components of the mixture on the TSCA 8(b) inventory are designated

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

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SARA 311/312 Hazardous Yes

chemical

Classified hazard

categories

Flammable (gases, aerosols, liquids, or solids)

#### SARA 313 (TRI reporting) Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Safe Drinking Water Act

Not regulated.

(SDWA)

#### **US state regulations**

#### US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

#### US. Pennsylvania Worker and Community Right-to-Know Law

Petroleum Naptha (CAS 64742-48-9)

#### US. Rhode Island RTK

Not regulated.

#### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Petroleum Naptha (CAS 64742-48-9)

This material is not subject to the following international agrements:

Montreal Protocol (Ozone depleting substances)

The Stockholm Convention (persistent organic Pollutants)

The Rotterdam Convention (Prior Informed Consent)

Basel Convention for the Prevention of Polution from Ships (MARPOL)

This material/consitute(s) is covered by the following requirements:

All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
	emplies with the inventory requirements administered by the governing country( components of the product are not listed or exempt from listing on the invento	

country(s).

## 16. Other information, including date of preparation or last revision

Issue date 19-March-2020 Revision date 03-May-2023

Version # 04 **HMIS®** ratings Health: 1 Flammability: 2 Physical hazard: 0

953024

Galkyd Lite SDS US

#### NFPA ratings



#### List of abbreviations

LD50: Lethal Dose 50%.

EC50: Effective Concentration, 50%. LC50: Lethal Concentration, 50%. STEL: Short-Term Exposure Limit. TWA: Time Weighted Average Value.

EL0: Effective level, 0%.

IC50: Inhibitory concentration, 50%.

LL0: Lethal level, 0%.

NOELR: No Observed Effect Loading Rate

#### Disclaimer

The information in this Safety Data Sheet has been obtained from current and reliable sources. However, the data is provided without warranty, express or implied, regarding its correctness or accuracy. It is the user's responsibility to determine safe conditions for use of this product and to assume liability for loss injury, damage, or expense resulting from improper use of this product.

### SAFETY DATA SHEET



#### 1. Identification

Product identifier Gamsol Other means of identification None.

Artist's oil painting solvent. Recommended use Recommended restrictions Keep out of reach of children.

Manufacturer/Importer/Supplier/Distributor information Manufacturer/Supplier Gamblin Artists Colors 2734 SE Raymond St.

Portland, OR 97202

USA

+1 503-235-1945 Telephone number

Website www.gamblincolors.com

For Chemical Emergency ONLY, call: **Emergency Telephone** 

Number

+1 503-235-1945

**DETAILS OF DISTRIBUTOR** 

Company Name: Rossdale Pty Ltd

351-353 Warrigal Road, Cheltenham 3192 Australia Company Address:

Company Phone: (03) 9583 4411 Fax: (03) 9583 4399

**EMERGENCY TELEPHONE NUMBERS** 

Posions Information: 13 11 26

2. Hazard(s) identification

Physical hazards Flammable liquids Category 4

Health hazards Aspiration hazard Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** Combustible liquid. May be fatal if swallowed and enters airways.

Precautionary statement

Prevention Keep away from flames and hot surfaces. - No smoking. Wear protective gloves/protective

clothing/eye protection/face protection.

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. In case of fire: Response

Use appropriate media to extinguish.

Store in a well-ventilated place. Keep cool. Store locked up. Storage

Dispose of contents/container in accordance with local/regional/national/international regulations. Disposal

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None

#### 3. Composition/information on ingredients

**Mixtures** 

Chemical name	CAS number	%
Petroleum Naptha	64742-48-9	100

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

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Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

**Most important** Aspiration may cause pulmonary edema and pneumonitis. Direct contact with eyes may cause symptoms/effects, acute and temporary irritation.

delayed
Indication of immediate

medical attention and special

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

treatment needed
General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

Suitable extinguishing media Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

media
Specific hazards arising from the chemical

Unsuitable extinguishing

The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods

General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

Combustible liquid.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Use water spray to reduce vapors or divert vapor cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination.

for later disposal. Clean surface thoroughly to remove residual contamination.

**Environmental precautions** 

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

Eyelface protection Wear safety glasses with side shields (or goggles).

Safe Work Australia Exposure Standards returned no results.

Skin protection

Hand protection Wear protective gloves.

Skin protection

Other Wear appropriate chemical resistant clothing.

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

#### Appearance

Physical state Liquid. Form Liquid. Colorless. Color Odor Odorless. Not available. Odor threshold

-92.2 °F (-69 °C) Melting point/freezing point

Initial boiling point and boiling

372.2 - 408.2 °F (189 - 209 °C)

range

144.0 °F (62.2 °C) Pensky-Martens Closed Cup Flash point

Not available.

< 0.1 **Evaporation rate** 

Flammability (solid, gas) Not applicable.

#### Upper/lower flammability or explosive limits

Flammability limit - lower

0.7 %

(%)

Flammability limit - upper 5.3 %

(%)

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

Vapor pressure < 0.31 mmHg @ 68°F (20°C)

Vapor density 5.6

0.765 @ 59°F (15°C) Relative density

Solubility(ies)

Negligible. Solubility (water) Partition coefficient Not available. (n-octanol/water)

635 °F (335 °C) Auto-ignition temperature Decomposition temperature Not available. Viscosity 1.56 mm<sup>2</sup>/s 104 °F (40 °C) Viscosity temperature

Other information

Explosive properties Not explosive. Oxidizing properties Not oxidizing.

#### 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous No dangerous reaction known under conditions of normal use.

reactions

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Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials

products

Strong oxidizing agents.

Hazardous decomposition

No hazardous decomposition products are known.

#### 11. Toxicological information

Information on likely routes of exposure

Prolonged inhalation may be harmful. Inhalation

Skin contact Prolonged skin contact may cause temporary irritation. Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia.

Symptoms related to the physical, chemical and

toxicological characteristics

Aspiration may cause pulmonary edema and pneumonitis.

Information on toxicological effects

May be fatal if swallowed and enters airways. Acute toxicity

**Test Results** Components Species

Petroleum Naptha (CAS 64742-48-9)

Acute

Dermal

Liquid

Rabbit LD50 > 5000 mg/kg

Inhalation

Vapor

LC50 Rat > 5000 mg/m<sup>3</sup>, 4 hr

Oral

Liquid

LD50 Rat > 5000 ma/ka

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation.

Serious eye damage/eye

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Petroleum Naptha (CAS 64742-48-9) 3 Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects Prolonged inhalation may be harmful.

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### 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results	
Petroleum Naptha (CAS 647	<b>7</b> 42-48-9)			
Aquatic				
Acute				
Algae	EL0	Pseudokirchnerella subcapitata	1000 mg/l, 72 hr	
	NOELR	Pseudokirchnerella subcapitata	1000 mg/l, 72 hr	
Crustacea	EL0	Daphnia magna	1000 mg/l, 48 hr	
Fish	LL0	Oncorhynchus mykiss	1000 mg/l, 96 hr	
Chronic				
Crustacea	NOELR	Daphnia magna	1 mg/l, 21 d	
sistence and degradability	No data is	available on the degradability of any ingre	edients in the mixture.	
accumulative potential	No data available.			
hility in soil	The produ	ct is insoluble in water		

Pers

Rioa

Mobility in soil

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

#### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

ADG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

## 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Toxic Substances Control Act (TSCA)

All components of the mixture on the TSCA 8(b) inventory are designated "active".

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#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Yes

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Classified hazard Flammable (gases, aerosols, liquids, or solids)

Aspiration hazard categories

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

#### US state regulations

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Petroleum Naptha (CAS 64742-48-9)

US. Rhode Island RTK

Not regulated.

#### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

This material is not subject to the following international agrements:

Montreal Protocol (Ozone depleting substances)

The Stockholm Convention (persistent organic Pollutants)

The Rotterdam Convention (Prior Informed Consent)

Basel Convention for the Prevention of Polution from Ships (MARPOL)

This material/consitute(s) is covered by the following requirements:

All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Vee" indicates this product of	amplies with the inventory requirements administered by the governing country(s)	

### 16. Other information, including date of preparation or last revision

19-March-2020 Issue date Revision date 03-May-2023

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<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Version #

**HMIS®** ratings

Health: 3

04

Flammability: 2 Physical hazard: 0

**NFPA** ratings



List of abbreviations

EC50: Effective Concentration, 50%.

LC50: Lethal Concentration, 50%.

LD50: Lethal Dose, 50%.

STEL: Short-Term Exposure Limit. TWA: Time Weighted Average Value.

EL0: Effective level, 0%. LL0: Lethal level, 0%.

NOELR: No Observed Effect Loading Rate

Disclaimer

The information in this Safety Data Sheet has been obtained from current and reliable sources. However, the data is provided without warranty, express or implied, regarding its correctness or accuracy. It is the user's responsibility to determine safe conditions for use of this product and to assume liability for loss injury, damage, or expense resulting from improper use of this product.

Gamsol 953023 SDS US

Version #: 04

### SAFETY DATA SHEET



#### 1. Identification

Product identifier Gamvar Gloss Picture Varnish

Other means of identification

Recommended use Final coating on artist paintings. Recommended restrictions Keep out of reach of children.

Manufacturer/Importer/Supplier/Distributor information Manufacturer/Supplier Gamblin Artists Colors 2734 SE Raymond St.

Portland, OR 97202

USA

+1 503-235-1945 Telephone number

Website www.gamblincolors.com

**Emergency Telephone** For Chemical Emergency ONLY, call:

Number

+1 503-235-1945

**DETAILS OF DISTRIBUTOR** 

Company Name: Rossdale Pty Ltd

351-353 Warrigal Road, Cheltenham 3192 Australia Company Address:

Company Phone: (03) 9583 4411 Fax: (03) 9583 4399

**EMERGENCY TELEPHONE NUMBERS** 

Posions Information: 13 11 26

2. Hazard(s) identification

Category 4 Physical hazards Flammable liquids Health hazards Aspiration hazard Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** Combustible liquid. May be fatal if swallowed and enters airways.

Precautionary statement

Keep away from flames and hot surfaces. - No smoking. Wear protective gloves/protective Prevention

clothing/eye protection/face protection.

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. In case of fire: Response

Use appropriate media to extinguish.

Store in a well-ventilated place. Keep cool. Store locked up. Storage

Dispose of contents/container in accordance with local/regional/national/international regulations. Disposal

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%	
Petroleum Naptha	64742-48-9	60 - 70	
Hydrocarbon resin	68441-37-2	30 - 40	

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

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Eve contact Rinse with water. Get medical attention if irritation develops and persists.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

Aspiration may cause pulmonary edema and pneumonitis. Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

Ingestion

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods

General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

Combustible liquid.

#### Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Use water spray to reduce vapors or divert vapor cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Gamvar Gloss Picture Varnish SDS US 2/7

Skin protection

Hand protection Wear protective gloves.

Skin protection

Other Wear appropriate chemical resistant clothing.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

#### **Appearance**

Physical state Liquid.
Form Liquid.
Color Colorless.
Odor Odor threshold Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling

365 - 412 °F (185 - 211.11 °C)

5.6 @ 101 kPa (calculated)

range

Flash point 143.0 °F (61.7 °C) Pensky-Martens Closed Cup

Not available.

Evaporation rate < 1

Flammability (solid, gas) Not applicable.

#### Upper/lower flammability or explosive limits

Flammability limit - lower

0.7 %

(%)

Flammability limit - upper 5.3 %

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure < 0.064 kPa @ 68°F (20°C)

Relative density 0.767 @ 59°F (15°C)

Solubility(ies)

Vapor density

Solubility (water) Negligible.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 635 °F (335 °C)

Decomposition temperature Not available.

Viscosity 20 mm²/s

Viscosity temperature 104 °F (40 °C)

Other information

Density 0.75 g/cm³
Explosive properties Not explosive.

Molecular formula 163

Oxidizing properties Not oxidizing.

#### 10. Stability and reactivity

Gamvar Gloss Picture Varnish

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

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Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Conditions to avoid

No hazardous decomposition products are known.

### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Prolonged skin contact may cause temporary irritation. Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia.

Symptoms related to the physical, chemical and

toxicological characteristics

Aspiration may cause pulmonary edema and pneumonitis.

Information on toxicological effects

May be fatal if swallowed and enters airways. Acute toxicity

Test Results Components Species

Petroleum Naptha (CAS 64742-48-9)

Acute

Dermal

Liquid

Rabbit LD50 > 5000 mg/kg

Inhalation

Vapor

LC50 Rat > 5000 mg/m3, 4 hr

Oral

Liquid

LD50 Rat > 5000 mg/kg

Skin corrosion/irritation

Serious eye damage/eye

irritation

Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Petroleum Naptha (CAS 64742-48-9) 3 Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

Gamvar Gloss Picture Varnish

repeated exposure

Not classified.

May be fatal if swallowed and enters airways. Aspiration hazard

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SDS US

#### 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results	
Petroleum Naptha (CAS 647	742-48-9)			
Aquatic				
Acute				
Algae	EL0	Pseudokirchnerella subcapitata	1000 mg/l, 72 hr	
	NOELR	Pseudokirchnerella subcapitata	1000 mg/l, 72 hr	
Crustacea	EL0	Daphnia magna	1000 mg/l, 48 hr	
Fish	LL0	Oncorhynchus mykiss	1000 mg/l, 96 hr	
Chronic				
Crustacea	NOELR	Daphnia magna	1 mg/l, 21 d	
sistence and degradability	No data is	available on the degradability of any ingre	edients in the mixture.	
accumulative potential	No data av	ailable.		
oility in soil	The produ	ct is insoluble in water.		

Persi

Bioa

Mobi

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

#### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

ADG

Not regulated as danderous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

#### 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Toxic Substances Control Act (TSCA)

All components of the mixture on the TSCA 8(b) inventory are designated "active".

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#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Yes

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Classified hazard Flammable (gases, aerosols, liquids, or solids)

Aspiration hazard categories

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

#### US state regulations

#### US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

US. Pennsylvania Worker and Community Right-to-Know Law

Petroleum Naptha (CAS 64742-48-9)

US. Rhode Island RTK

Not regulated.

#### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Petroleum Naptha (CAS 64742-48-9)

This material is not subject to the following international agrements:

Montreal Protocol (Ozone depleting substances)

The Stockholm Convention (persistent organic Pollutants)

The Rotterdam Convention (Prior Informed Consent)

Basel Convention for the Prevention of Polution from Ships (MARPOL)

This material/consitute(s) is covered by the following requirements:

Inventory name

All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

#### International Inventories

Country(s) or region

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Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Ricc	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

Issue date 19-March-2020 Revision date 05-May-2023

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953036 Version #: 04 Revision date: 05-May-2023 Issue date: 19-March-2020 On inventory (yes/no)\*

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

Version #

HMIS® ratings Health: 3

Flammability: 2 Physical hazard: 0

NFPA ratings



04

List of abbreviations

LD50: Lethal Dose 50%.

EC50: Effective Concentration, 50%. LC50: Lethal Concentration, 50%. STEL: Short-Term Exposure Limit. TWA: Time Weighted Average Value.

EL0: Effective level, 0%.

IC50: Inhibitory concentration, 50%.

LL0: Lethal level, 0%.

NOELR: No Observed Effect Loading Rate

Disclaimer

The information in this Safety Data Sheet has been obtained from current and reliable sources. However, the data is provided without warranty, express or implied, regarding its correctness or accuracy. It is the user's responsibility to determine safe conditions for use of this product and to assume liability for loss injury, damage, or expense resulting from improper use of this product.

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REVISED: 5/1/2023



# I AĊBÌ IJÆAÌ A I DBBÌ

## I BÁ Ì DÈ Ē L-ÆGHĖÆ Á Á ĀĒÆ ÁĖË ĢĀĒ IJ ĎÆBĒ Ì ĎĊĎÁA Ì DÈĒ

ĢĦĖÆÍÅÌ

ÇTIR, ŇÛNÚĒ KR, ŅÆ ĦŅÔŌĒŅŇ ĚŒ ŲŅŅŇ ĖŌQ

ÁROŇ GŦŊĿĿŊŇ ĚŌŔĿŊŊŇ Ė ŌQ

IÚKŔŇĖŌQ

**ĢTŖŇÛNÚÆŅLNFŌ ÚŌŖŔÆ** ĦŅÔŌŔŊŇ ŒŨ UŅŊŇ ŖŌQ

**ĎŔÚŅŔŇŅŇÍUŅÆ** ÌŖŖŖŇŌŌVŰŖŦÞŌŔÕŦŦŖŦŅŦŪŌĮUŖÔĸŦŪŌÚŖŌŌŢKŌŘÚU

ÅĖ Ë ĢAĒ IJ

ÁRR TKŔVĒKR ŅÆ ÇKR MŌĀ ATŪŪŪŪĀROŖTU ÁRR TKŔV AŇŇŦŅUÆ 2734 SE Raymond St. ĢŖTŪQKŇĄĖ Ħ OŅMŁ M

ÍΙΑ

ÅŖR TKŔV ĢÖŖŔŅÆ ŇŁ NĚVNŇĚL·OŃŇ

**BR ŅĪTÕŅŔNV ĢÖŖŔŅÆ** ĚŖNKŒBR ŅĪTÕŅŔNV ĦŖŖR

## I BẮN DẾ Ē MÁĐAĴA HÆI ĎEBĒ Ì ĎĆ ĎÁA Ì DỀ Ē

ÇDI ĚAÅBĚDE Ç

Ç DI Á OKULÖÖÖDKÚ ÖRÁ É ČOKR R KMON ĒŖŔŅ

DNKOÓÖ ĒŖŔŅ

Ç DI ĢŌŪÚŖÕĦKR ĦUĠÉ ĒŖŔŅ I ŌŎŎŔKOŢ ŖŦŇŒ ĒŖŔŅ

DAĴ AĦÆ

**DKVÍKTŇ I ÚKÚŅR ŅŔÚJÉ** ĒŖŔŅ **ĢŦŊNKŮĹŌŖŔKŦV I ÚKÚŅR ŅŔÚJÉ** ĒŖŔŅ

**DKVÍKTIŇĚÆÐJÚŅITR ŰŘŰŘŐ ÁRR TRŘNŘÚURÔĚKMŅŒŰŘŐ**É ĒŖŔŅ

#### AÆÆÐÖ ÖË Ē AĚ

ĦŅŢŅKÚŅŇ ŅŲŢŖLÛĦŅ R KV NKÛLŅ LÞŌŠ ŇŦVŔŅLUŖŦNTKNÞŌŠÕB ĦKÕLĄLÚŅNQŰŖŖQŖŦŰKLÚŅ LŖKÞŅŇŰŌŨÖTŦŖŇÛNÚR KV UŢŖŔĹKŔŅŖÛLOVŌŎŔŌŊŌŌŌS TŦŖŢŅTOVÖKŔŇOŅŇŖŦŇŌLNKŦŇŊŇB

ĒŖUŌŎŔŌŌŌĸŔÚŅŔŮŌŖŔŖŅŔÚKÇÖKVÍĸŦŇĿĿ

REVISED: 5/1/2023

## IBÁ Ì DĒĒ NÆÁ ĖË GĖI DĪ DĒĒ EDĒCĖ HË A Ì DĒĒ ĖĒ DĒÇ HBÆDBĒÌ I

ÁÖNA OPKOÉ KRIN	ΆΑΙ Ĺ	ÁŖŔŊŅŔÚŦĸŰŌŖŔ FŔG	ÇDI DKVÍKTŇ ÁŖŇŅU	I ÛTTŒŅFĦŅNB	BÍ DI ĢA
ĚŒKUŅŅĬŇ ŖŌQ	ŊŁŁĿĚMÑĚĿ	ĿŁŁ	Ē ŖÚÖKVÍKTŇŖÛU	Ē EA	Ē EA

### IBÁ Ì DÉĒ NÆC DHI Ì A DÆË BAIÍ HBI

Ç BĒ BĦAĚ ĎĒ CĖ ĦË AÌ ĎĒ ĒÆ Ē Ŗ UT ŅNŪKOR ŅKŪTŅU ŦŅŢŪŌŊŇB

**ĬŔÖKQŲŪŖŔÆ** I ÛTTQY ĜŖŅLÖ KŌŒNŖŔŴQŰŇŖŊĹŖŦŌŔ NKUŅŖÔŊŖŖ TQQŌŔĹŰB

I ÞÁR NRÁÚKNÚÉ ÞAR NNÁRÚNOV Ű KUÖ Ű ĐỐO Ű KÚNF KÁN URKT KÁN TÁRUN ÚÖRTR Ú ČÖÖVB

ĬĎĿÞŌŔŌŦŦŌĹĸÚŌŖŔŊŖŔĹŰŌŔÛŊĿĿĄŊŖŔĿŴQÚKŇŖŊĹŖŦŧ

**BVŅ NŖŔÚKNÚÉ** ĦŅR ŖŮŅ NŖŔÚKNÚQŅŔUŅU ŪĎŰ ŖŦŔB

HOŘUN RTNÁNŇ NAN ÔRT UNŮNTKOR ÕRÛÚNU ÛÁŇNT TÛÁÁÐÕŰ KÚNTB

ĬĎU/R TÚRR UTNAUŌJÁNRŔUĴOJŇRNÚRŦB

**TŘŐŅLÚĪŖŔÆ** ĦŒĪLŅ ŖÛÚR ŖÛĹÖ KŔŇ ĹÖŊŔ ŇŦŒĪÞ TQŅŔÚV ŖÔŰ KÚŅŦB

ÆŖŔŖÚŌŔŇÛŊŊŮŖŖŌŨŌŔŎŒŊĸŒQÔŖŦŖŅŇŌŌĸĊŎŊŒŢŌŖŖŅŇŌĸÚŊŒVB

I VR TÚRR UKŔŇ ŅÔÔŅNÚU FIVŖŰÖ KNÛÚŅ KŔŇ ŇŅŒÇVŅŇGÉ

DŅKŇKNÖŅ

Ç KUÁTŐN RT ŐKÚŅUŰŐK KQŇŐDRTÍNNTU

ÅTKRTŌRÕ ÆŌVÕRNUU

ÅTNKÚÖĞRŐ ŇÖDÖÐNÚOÚV

ÅRÛÕÖŌŘÕ

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I ŒŎŎÚĒĦŌĹKŔÚŅÔÔŅNÚŖŔ ŅVŅU

### ĒĖÌBIÌĖ ĢDIJI ĎÁĎAĒIĖ ĦĊĎĦIÌ AĎÆĢĦĖĬĎÆBĦIÆ

ĬĎĿŰ KŒŖŰ ŅŇĄČKĿĹŦŌŊŌŦŦŌŎĸĹŌŖŔŰŌĬŎ KŇŇŅŇĄKŊĹŌŮĸĹŊŇŊĸŦſŊŖŔB

Ë NYNTOKOLÛT NA ÛQURK ÛRFKÚQUKUÚN YÖRÛALB ÎDRNNNULKAV RUVÕNÉ ANUT OKKÚQK ÚANKÚR NKÚB

Ì TẠK ÚL ÞÕK KÁŇ R ÛN RÛUR ŅR MTKÁŅ Ű ŌŰÖ KÁ ƯỚŌ ŌLÚKR ÕŠŅ KÁŇ NR, THŌR PÕI TTŅTKTK ƯỚR ÁLB ĐÍK NKLŅUR Ô ŌTTŌK ƯỚR ĆŖ ƯỚN QUÁ Ố LĄ ĐÍK ĐƯỚN KÁU ĐƯỚN NR, TLŌR, LÚŅTŖ ĐĨ ÕK CHĄ KÚLB

## I BẮN ĐỀ Ē ŇÁ CỔ ĐƠNG ĐÌ ĐỀ Ç Ë BAIÍ HBI

ĊĎĦB ĊĎÇ DÌ ĎĒÇ

BLÚTŘ TÔ ĐỘ TRƯ NH TRÁ KTHYR Ý NỮ LƯỚN VẬC KUNR ÔU NƯỚK TỔ VỚN TRÚ NH TRẮ KTHYR Ý NỮ LƯỚN VỊC KUNR ÔU NƯỚK TỔ VỚN KỐN KỐN KỦI

Í ŔŴŌĹĸĸŊŊŲŰŘŐŮŌÖŌŘŐĸŐŅŔŴÉ

I KÚNFUTTKVĚÍ KÚNFŰ ĐỐ ĐÔ ĐƠNÚ

GTRÚNNÍÐIN BT ÛÐ R NÁÚKÁŇ GTNNKÛÚÐRÁUÐRT CÐINÐÐÖÖÚŅTUÉ

REVISED: 5/1/2023

AUÐÍK KÁV ÔÐÐÍNAU NKT UNÐÐÁNRÁÚKÐÁNNN NÆÐNKÚÖÐÁÐ KTTKTKÚÚU

TŦŊĿĿŮŦŊĔŇŊŖĸŔŇĄĔIDAĿĒĎĖIDĸĸŢŦŖŮŊŇŖŦŅŢÛŌŮĸŌŅŔÚĠĸŔŇÔŨŒQ

T#RÚNNÚÔN ÕNKŦB

### DKVÍKTŘUATOUTŘŐ ČTRR ÚÖŅ ÁÖŅR OKQÉ

HOLD ŖÔΘΘΑΘΕΡΙΚΟŬUKŔŇ ŖƯÜŅFR KÚŅFŌKOUNŖŔÚKŌKŌKŌ ƯÜŌŪTŦŖŇÛNÚR KV ÖŅKÚKŔŇ
UTŖŔÚKŔŅŖÛUQY ΘΘΑΘΙŅĄΘĎŅŲTŖUŅŇ ÚŖ KŌBI ÚŖŦŅ Ű ŌTŌKŌ ŦKOUKŔŇ LŌK ŌDKFR KÚŅFŌKOUŌK R ŅÚKQ
NKŔUŰ ŌŨÖ ÚŌŨŎÚQY ΘŪŪŪĀKŌ OŢĀLBĀŖŖQNOKUŅŇ NŖŔÚKŌKŅFUŅŲTŖUŅŇ ÚŖ ΘŌPŅ Ű ŌŨÖ Ű KÚŅFUTŦKVB

ĊŖŦŖĸŰŌŖŔŖÔŰŖŲŌŊŎĸŮŅŪŌĬŢŖŮŪŌMŊŇŨŦŌŔŎĊŊĸŰŌŔŎŖŦŌŔĸĸŮŊŖÔŌŌŊĿ

### ĊĚAË Ë AÅDĚDĪ I J ĢHĖ ĢBHÌ DBI ĊOKR R KMODŅĖŌR ŌŪJOĀR AŌFÆ

Í TTŅF Ē EÆ ĚRŰNF Ē EÆ

### ĒĊĢA DKVÁCŦŇ ÅQKULTŌÐŌKÚŌRŔÆ DË Ď DKVÁCŦŇ ÅQKULTŌÐŌKÚŌRŔÆ

DŅK QÓÖ Ł
ĊQ(RRK MŌŌŌV Ŀ ĊQ(RRK MŌŌŌV Ŀ
ĦŅK NĹŌŮŌV Ł
Ė LŰŎŅF Ē EA ĢŦŖ ÚŅNLŌŖŔ Ē EÆ

ĢTR.ŇÛNÚ Æ COKUÖ ĢR.ŌKÚÉ AÛÚR.ŌDKŌŪŌRŔÌ ŅR TŅTKÚÛTŅÆ

HNÔĐẾNN ĚĐỀUNN Ė ĐỘ ŠNŁ Ł I Ċ ŠMĨŁ I Å Ē EÆ Ē EÆ

## IBÁ Ì DĒĒ ÑÆAÁ Á ĎÆBĒ Ì AĚ HBĚBAIBË BAIÍ HBI

#### GNALRÁKOGANNKÚÚTRÁUAGARÚNNÚTŮN BŢÛTĀR NÁÚÉ

Í UN TŅUTĒKURTV TTŖÚŅNŰŠŅ ŇŅŮŠŅ KÕKĒKUÚÖŅ ŅÔŠŅNÚU ŖÔÔÛR ŅLEŇÛUÆKŅTŖUŖQ

BŘLŮTHY, KŇY,TŮKÚY, ŮYŘÚŌQKÚTŖŔ İ NKTTTHYÚNNÓON N,TŮŌTR N,ŘÚ ÊŅNT ŮŘTTHYÚNNÁNŇ TYHU,RŘUKŰKV ÊNNT KŰKVÔTRR ŌŎŘOÚTŘŘ URŮTHYNU

GKTÚÐÚÐGT ŇKŔÕNF RÔUÐT TŒŐ RŔ ŒNKÞNŇEUT ŌÐNŇ TTRŇÛNÚ

BRŮĞRŔR NŘÚKOGTNYKÛÚĪRŔUÉ ÆR ŔRÚKODUŰ ÚR NŘÚNFUNŰ NFURŦÕTRÛŔŇŰ KÚNF

GTINŮNKÚ ÔTRR UTTINKŇ OTŘO FNEOBAW ŇKRR OTŘOŽET RT RODVIKTTOVITUG

#### Ë NLÖRŇUKŔŇ Ë KÚNTŌKOUÔRT ÅRŔÚKŌŘR NŔÚKŔŇ ÅQUKŔĚÛTÆ

AMURTIMŰ ŌŰÖ ŔŖŔĚNŖŖ MÛLÚŌMOŅ OŌŢ ÛŌŇĚMŌŘŇŌŘŐ R KÚŅITŌKOŢUKŔŇĄŇŌKÚŖŖ ŌŨŅĄKNŌŇ MŌŘŇŅITUĄ

ÛŔŐŮNFLKONŐŘŇNFLÆ

HNR RŮN ÔTRR ƯỚN Ố KÚNT LÚ TỐKNN FNEÕBLÞŌR RT LÚN ÚŌRÁ RÔÔBB

GŌNÞÛT R NNÖKŔŌNKOQYB

I ŅŔŇ ŌŖŦ LŪŌŪKMOV ŢÛKOŌŌŌŅŇ ŦŅNŖŮŅŦV KŔŇEŖŦŇŌŪTŖLKQNŖR TKŔŌŅLB ÆŌŪTŖLŅ ŖÔÚŌŅ NŖOQŅNÚŅŇ R KÚŅĦŌKQKNNŖŦŇŌŔÕÚŖ ŦŅÕŨOKÚŌŖŔLB

REVISED: 5/1/2023

Í UNÍN TKÖURT RÚÖNT NONKRÓRÓR KÚNTTÖROULÖRÚON MN URKÞNIN Ú TÓÖ Ú KÚNT

KŔŇ TOKNNŇ ŌŔ K UNKONŇ NŖŔÚKŌŔŅŦB

AŇŇŌŌŖŔĸĊŎĸŶŖŦŖĸĹŌŖŔÆĖĖŌŪŖĸÞŊŇŖĸĹŶŊŦŌĸŎIJŖĸVUŢŖŔĹĸŔŊŖÛĽŎŶŊŖŖſŴĹĹĠ

IŅŅIŅNÚĀŖŔŅŌŖŦŌŔŌŖŦŖKÚŌŖŔŖŔUKÔŊÖKŔŇŌŌŘÕB

I NN I NNÚTRÁ N ÔR FŰRÔR TR. KÚTRÁ RÁ TNAURÁKOTTRÚNNÚTRÁ NTŮ TR. NÁÚB

INNINNÚTRÁ L'N ÔR ŦŇŌUTRUKOOTŘÔR TR KÚTRÁB

## I BÁÌ DE Ē ŅÆDAĒÆEDĒÇ AĒÆIÌĖĦAÇB

DAĒÆĒĞÇ

Ç NKNTKQE A ŮR ĐỐI ƯỚN ĐR TR KƯỚR K RÔR ĐỢCK VÍNB

HKŐLAR NÚKQŰ RRQUĎNÔLÚÍBŘŐUĎUÖKŮÍBŘŐUKŔŇ Ű KLÚN TKTNFULRKÞNŇ Ű ŌŰÖ TFRŇÛNÚR ÛLÚMNI

TOKNNÝ OŠ KUNKONÝ R NÚKO

NR KÚKOŘNETKÚNŇ ÔR TÔĐUR R KMODJŰ KUÚNB

ĎÁ ÔRTR KÚTRÁ KMRŮÚ ÔÐÐNĚ KÁŇ ŅŲTORU ŪRÁ TTRÚŅNÚ ŪŖÁ ÆĢTRÚŅNÚ ČTRR ÖŅKÚS

ÊŅŅT ŌŎŔŌŌŖŔ UŖÛŦŊIJKŰKVĚÆŖŔŖÚURŖÞŅB

I ÛNUÚKŔNŅETŦŖŇÛNÚŌIJŌŎŔŌĹKMOŅŪŔŇŅŦŊŅŦŰKŌŔŊŖŔŇŌŎŌŖŔĿĿ

IÌĖĦAÇB

HINT ÛĞÎNR NÂWÛR MN R NÚMV WÂTNTRRR UKÂŇ NRÁWĞÎNTUÉ

A ŮŖĪŎĬ LÚŖŦKÕŊ ŔŅKŦ ŅĻÚŦŊŖ ŅÖŊKÚĄĪŌĎŔŌŪĪŖŔ LŖÛŦŊŊĿŖŦŖŢŊŔŌŪŢŖ ŊB

ĎŘÔRTR KÚĪRÁ KMRŮÚUÚRTKÕN ÕŽ RÁNNRR R RÁ UÚRTKÕN ÔKNŌŪĎVÆ

I ÚŖŦŊ KŰ KV ĜŦŖR ÔŖŖŇUŰÔÔLB

ÆR ÁRÚLÚRTN ÚRÕNLÖNF Ű ŌÓÖ RŲŌŇŌVŌRÕ KÁŇ KNŌŇŌNR KÚNTŌROUB

ÆR ŔŖÚWŖŦŊ ŰŖÕŊŰÖŊŦŰ ŌŨÖ ÚŊŲŰŌŊĿĿ

ĊÛŦŰŎŊŦŌŔÔŖŦŖĸŰŌŖŔĸŊŖÛÚĿĹŖŦĸÕŊŊŖŔŇŌŰŌŖŔĿŰĔ

I ÚRTN ŐR NRROLŇTV NRŔŇŌÓŌRŔUŌŔ Ű NOOLNKONŇ NRŔÚKŌŘNTLB

AŮŖŌŇ TŦŖŒŖŔÕŊŇŊŖŔÚĸŊÚŰŌŨÖĸŌŦĿŖŲVÕŊŔB

HNR RŮN KŔŇ Ű KUÖ NRŔÚKR ŌŠKÚNŇ NORÚÖŌŘÕ MNÔRŦN ŦNĚÛUNB

I ÚRTN ĐÃ Ű NGY ỦN KƯ ĐẠC ỦN N TO(NNB

ÊNINT KŰ KV ĈŦŖR ŖŢŊŔ ÔŒKR ŊĿŊÖŖÚĿŨŦÔKŊŊĿĸŔŇĿŖŨŦŊŊĿŖÔŌŎŔŌŎŒŖŔB

## I BẮN DẾ Ē NÁBJ GĖ I Í HB ẮĖ Ē Ì HĖ ĚI EĢBHI Ė Ē AĚ ĢHĖ Ì BẮN DỀ Ē

ĢBHIĖĒAĔĢHĖÌBÅÌŪĖĒ ÅŖŔÚFŖQŢKTKRŅÚŅFU

ĬŔŎŦŊŇŌJŔĹIJŰŌŰÖŌŌŖŌŨŮĸQŨŊIJĹŰĸĹŦŊŢŨŌŊŊŖŖŔŌŨŖŦŌŔŎĸĹŰŎŊŰŖŦÞŦOKŊŊÆĒŖĹĦŊŢŨŌŊŇ

ŊŁŁĿĚMÑĚĿĚŌŘUŅŅŇĖŌQ

GBĚ FÍ I AG I ÖŖŦŰŁÚŅŦŖ ŮKQŨŅÆĿŇÍ ŇĨ R ÕŒ L

Í RÚKQŇÛWÎ ĦŅUTĒKMŒŅĒKNÚĒRŔ

Ė BĚ FÅKŔKŇKG I ÖRTŰLÚNTR ŮKOŲŅÁLŁ H NÎ R ÕŒ L

ÍË ŌLÚÎ HINUTŌKMON RŌLÚ

Ìİ A FÅKŔKŇKG I ÖRFLÉÚNFR ŮKQÛNÆLŁHNÎ R ÕQR L

REVISED: 5/1/2023

HË QUÚHHĦŅUTŌKMQN R QUÚ

HINUT ÖKÚRTV GTRÚNNŰRÁÉ

ί υγι ω δύκ Μογιτήν Ττη τόγι Νουμάν κινήν δόγιος κίνης κοδικώδος δίκου το δίσος καθορώνος το δίσος καθάν το δί Εξετρομένος το δίσος το δίσος και το δίσος και το δίσος και το δίσος και το δίσος και το δίσος και το δίσος κα

TNUTŌKÚŖŦV TŦŖÚŊŊŰŖŔ R KV MŊ KŇŮŌKMŒŊB

**ἴ γκάσχισεκ**νε ί υχι κράσχι το δύο υλικίστος υσεκά ευδοδολολικύς τη χυλικύρις χυλικύρις τη χυλικός τη χυλικός τη χυλικός τη χυλικός τη χυλικός τη χυλικός τη χυλικός τη χυλικός τη χυλικός το χυλικό

ŖŦMŨŌŎŇŨŦŖÔŅŲŦŒŅŪŌŊŊŖŔŊŊŔÚŦĸŰŌŖŔIJŖÔŮĸŦŖŦŌŔŰŎŊĸŌŦBĒŖĿŖŖÞŌŔÕĄÔŒĸŖŅĄŖŦŖŰŎŅŦ

ÖDÁ ÖLÖRÁ URÚTINNUB

GTRÚN LÁUN C QRŮNUÉ Í UN NÖNR ŌKOTNUŌÚK RÚ ČORŮNUA TÔK NNNNN NÁ K KŮROŇ TTROR ŘONŇ RŦTNTNKÚNŇ UÞŌK

NŖŔÚKNÚBÌ ÖŅ ÕŒŖŮŅ R KÚŅFTŌKQÖKUÚŖ MŅ ŌR TŅFR ŅKMOŅ KŔŇ ŦŅLŌŪÚKŔÚ ÚŖ ÚÖŅ TŦŖŇÛNÚB I NOQINÍŌRŔ RÔÚÖN ÕŒŖŮN R KÚNFTŌKQJÖRÛOŇ MN MKUNŇ RŔ ÚÖN TNŔNÚFKÚŌRŔ ÚŌR NĄTKÚNURÔ

ŇŌĐĐUŌŖŔ KŔŇ ƯỚN ŇŅÕŦKŇKƯŌŖŔ ŖÔƯỚŅ ÕŒŖŮŊ R KÚŅŦŌKŒ,

BVN GTRÚNÍTRÁE I KÔNÍV ÕXLUNUTÔNNN NRŔÚKNÚTOJOÐ NOVÆNNNŰ KLÖ ÔRÛRÚKTR LÖRÛÐI MN KNNNUTOMOBB

BĒÇDĒ BBĦDĒÇ ÁĖĒÌ ĦĖĚI

Ĭ ŅŔŰŌŒĶŰŖŔÆ AŇŅŢÛKÚŅ ŮŅŔŰŌŒĶŰŖŔ LÖŖÛŎŊ MŅ TŦŖŮŎĬŊŇ LŖ ŰÖKÚŅĻŲTŖLÛŦŊ ŒŌŖ ŌŨIJKŦŅ ŔŖÚŅĻŅŅŅŇŊŇB DVÕŌJŔŊÆ AŒ KVURMUNĐŮN ÕRRŇ TŅŦĿŖŔKÇÖVÕŌJŔŊ R ŊKLÛŦŊĿŊĿŨNÖ KUŰ KLÖŒKÕ KÔÚŊŦ ÖKŔŇŒĶÕ ŰÖN

R KÚNTTŪKOKŔŇ MĄNÔRTHY NĮKÚŪŘÕĄŇTŪŘÞŪŘÕ KŔŇERT LR RÞŪŘÕB

BŲT ŖLÛŦŊ Ç ÛŌŇŊŒŔŊUÉ

ĒĖÌBAĖÖŅQNŮŅCRÔTTRÚNNŪRK KKŇÚVTŅUŖÔNŖKÚTRQUKŅNNULKTVŰŌDQŮKTVŇŅTŅKŇŌKÕÛTŖKTŖÚNKÚŪKQNŲTŖLÛTRŅ NRKŇŌŪDRKUB

## I BÁÌ DÈ Ē OÆĢDIJI DĂAĚ AĒÆ ÁDBË DĂAĚ ĢĦĖ ĢBHÌ DBI

Ç BĒ BĦAĚ ĎĒ CĖ ĦË AÌ ĎĒ Ē

ĢÖVLŌKQ ÚKÚŅÆ ĚŌŢÛŌŇ ĊŖŦŖÆ ÅQŅKŦ

ÅRQRTÆ JUŅQQUŰ EAR MŅF ĖNRTÆ IQÕÕÕŮŮŅÕŅÚKMQU RŌQ

**Ė ŇŖŦÌ ÖŦŊĿÖŖQŲ**Æ Ē EÆ

ĎĖ ĢĖ ĦÌ AĒÌ

DBAĚÌ DẠI ACBÌ IJẠAĒÆBĒĬ ĎĦĖĒË BĒÌ AĚ ĎĒCĖĦË AÌ ĎĒĒ

**ÅŖŌŌŖŌŖŪĖ** ÆŊNŖŖŢŖIJIJMŊÔŖŦŊMŖŌŌŌŔÕ

Ë ŅQQĀRÕĞŖĀRÚÉ Ē EÆ ĊŦŊŅĀĀRÕĞŖĀRÚÉ Ē EÆ Ĭ KTŖŦĢŦŅULĴŦŖŊÆ Ē EÆ

ÆŊŔŪŎV KÚMŁ i ÅÆŁŁ BOMĚŁ BOŅ ÕENR N

ITŅNOŌŌŌNÇTKŮŌŌVÆEĒEÆ BŮKTŖTKÚŌŖŔĦKÚŅÆĒĒÆ IŖOÕNŌŌŌŪVŌKİKÚŅTÆĒĒÆ IŖOÕŬUNVİŅŌÖÖÜÆĒĒÆ ĬROKÚŌŌŅÆĒĒÆ

REVISED: 5/1/2023

**ËRQANÛQÇTÎNÇÖÖÜÉ** ĒEÆ **ĬŌANRUŌÚVÉ** ĒEÆ

ĊŒŢÜĞĢŖŒŢŰÉ ŠŇŁŁİĊŠMÑŁİÅ

## I BÁÌ DE Ē LA ÁI Ì A Å DĚD IJ A ĒÆ ĦBAÁÌ DĎ D IJ

IÌ AÅDĚĎ IJ

Ç NKÎNTKAE I QUÂ TROYR NTĐỐNU Ű ÖNK NỤT RUNN ÚR KŌB

Ε ŲΤΝΟΤΙΝΗ ΤΟΝΟΥ ΚΑΝ ΝΙΨΕΙΟΌΝΗΣ ΦΙΚΟΟΥ ΦΟΟΚΕΤΟΝ ΙΟ ΈΘΚΝΝ ΚΕΊΝΚ ΦΙΤΕΊΝΙΝΑ (Β

Ë KV UTRÁÚKÁNRÛUDV NRR MÛUÚÛÁŇŅFNŅFÚKŌŘ NRÁŇŌŪŌŖÁUS

**ÅŖŔŇŌŨŖŔIJĹŖ AŮŖŌŨÆ** ÊŅŅT ŌŎŔŌŨŖŔ ŲŖÛŦŊIJIJKŰ KVĚÆŖ ŔŖÚĿŖŖÞŅB

I ÚRTN KŰ KV ÔTRR RUŌŇŌVŌŔÕ KÕŊŔÚLB

A ŮŖŌŇ ÖŅKÚĄUTKŦÞUĄŖTŅŔ ÔĐĄR ŅUKŔŇ ŖÚÖŅŦ ŌŎŔŌŪĒRŔ UŖÛŦNŅU

**Ë KÚNTŌKQUÚR, AŮRŌŠV**É Ē Ŗ KŇŇŌŪĒRŔKQŪĒOŘTR KÚŪĒRŔ ŌŪKŮKŌQKMOŅB

DKVÁCTŇŖÛUÆŊNŖR TŖĽŌŨŌŖŔŖŦÅÕĬĠŦŖŇÛNĹÚÉ

ÅKTIVRÁ R RÁRUTŠÍN KÁŇ NKTIVRÁ ŇŪRUTŠÍN

GRUJÍVÍJÁ RÔDKVÁRTŇRÛUHNKNÚJRKUÉ

GRUJĪNĪQĪŽV RÔÖKVKTŇRÛUTNKNJĪRKUJĒTNKNJŪ QÕÖ KQŇNÖVŇNLB

HNKNÚ LŮTRONÁ ÚDY Ű TÓÖ RŲTŠVOVTRÕ KÕNÁ ÚLB

HINKNÚUÚ ŌÓÖ T ŅŦŖŲŌŇŅUKŔŇ ŖÚÖŅŦŦKŇŌNKQŌŖŦŖ ŌŔÕ ŴMUÚKŔNŅLĿ

HINKNÚU ŰŐÖ GÁRTŐKÁÐI KNOÑI NÖGRTŐINLE HINKNÚU ŰÖÖ TRŰ NINHINN R NUKQE HINKNÚU ŰÖÖ WITRÁÖ KNOÑUKÁN KORKOŌE INOÒĞOÓKOÑORŐ ÛÁNNT NNHÍKŌK NRÁNOÑORÁUE

## I BẮN TẾ Ē L-L-ÁB Ė Į TẮ Ė Ě Ç TẮ A Ě TẾ CĖ HỆ AÌ TẾ Ē

ĎĒ CĖ HĖ AÌ ĎĒ Ē Ė Ē Ì Ė Į ĎÅĖ ĚĖ Ç ĎÅAĚ BĊĊBÁÌ I

ĎŔÖKOKÚŌŖŔÆ ĎŔÕŅĿÚŌŖŔÆ

I ÞÁKÆ I GÓÐÖÚÐFFÐÚKŔÚŅÔÐŅNÚŖŔ UÞÐÁ KŔŇ R ÛNŖÛUR ŅR NÆKŔŅLB

BVNÁE I ODDÖÚ OFTOK KÚ NODNIVÝR KVINUB

**ÅKŦNĪŘRÕNŔŌM**É I ÛMUÚKŔNNŌŪŔRÚŌŪÚNŇBFĒKÚĪRŔKQÌ RŲŌŪRORŌV GŦRÕŦKRG

HINTINKÚNŇ ÆRUNÌ RUŌJŌVÆ

ĦŅŢŅKÚŅŇ ŅŲŢŖŴŦŊŖKVNKÛŲŊĿŀŌŔŇŦVŔŊWŖŦŊŦKNÞŌŔÕs

## I BẮN TỪ Ē L'MÁBẮĖ ĚĖ Ç TẮA Ě TỪ CĖ ĦË AÌ TỪ Ē

BẮĖ ĚĖ Ç ĎÁAĚ ĎĒ ČĖ ĦË AÌ ĎĒ Ē

BNRÚRUÐIÐÍVÆ É KV NKÛLŅ ORÁÐ ÚŅFR KŇŮŅFLŅ ŅÔÐŅNÚUÐĀ ÚÖŊ KŢÛKÚÐI ŅŔŮÐFRÁR ŅŔÚS

AŇŇŌŪĪRŔKQNNRORÕŌKQŪŘÔRTR KÚŪRŔÆ

REVISED: 5/1/2023

ËRMOODUÆ

ÆR ÁRÚKOZRŰ OGTŐN TÜKÁÚTŐÐIURÓ ÚÁNĎOÚÚNŇ TTRŇÚNÚÚR TINKNÖ ŐTRÚÁŇ

Ű KÚŅFĄŰ KÚŅF NŖÛFLŅ ŖF LYŅŰ KÕŅ LV/LÚŅR B D ŌŎŎO, ŮR O, ÚŌDŅĄŰ ŌDDT KFLŐDŌR Ŕ FIKT ŌŇO, ÚŖ KŌFB

ĒŖÚŅŲTŅNŲŅŇ ÚŖ TKŦÚŌŎŌŖŔ ÚŖ UŅĬŇŌR ŅŔÚKŔŇ Ű KUÚŅŰ KÚŅŦ ĻŖŌŌŇLB

GBĦIĎÌBĒÅBAĒÆËĖÅŒĎIJ

**ÅŌŖŇŅÕĦĸŇĸÚŌŖŔÆ** ĦŅĸŇŌŊĸſŌŖŇŅÕŦĸŇĸſſŎŊĿ

**D V ŇΤΤΡΙ Ο VIÚT ΤΟ ΝΤΡΙ Ο VIÚT ΤΟ ΝΤΡΙ Ο ΝΤΙ Ο ΝΤΡΙ Ο ΝΤΙ Ο ΝΤΡΙ Ο ΝΤΡΙ Ο ΝΤΙ Ο ΝΤΡΙ Ο ΝΤΡΙ Ο ΝΤΡΙ Ο ΝΤΙ** 

AÚR RUTÖNFÖVÉ Ē EÆ

## IBÁ Ì DÈ ĒL·NÆÆDĎ ĢĖIA Ě Á ĖĒI ĎEBHA Ì DĖĒI

ĒĖÌBÁZEŌJTŖUKOŢŊNŖRRŅŔŇKÚŌŖŔUMKUŅŇŖŔRKÚŅŦŌKOKUUÛTTOŌŅŇBÆŌJTŖUKOŖÛUÚMŅŌKKNŅĀĀKNŅŰŌÖÖNÛŦŦŅŔÚ KTTOŌJKMOŅOKŰUKŔŇŦNÕŨOKÚŌŖŔUŊKŔŇRKÚNŦŌKOŅÖKŦKNÚNŦŌJĹŌDUKÚŰÖNÚŌRŅRÔŇŌJTŖUKOŖ

**İ KUÚŅÆĞÜT ŖUKQÉ** ÅŖŔÚKNÚŰ KUÚŅ T™ŖNŅUĻŖŦIJÔŖŦŦŊNANQŒKÕ ŒKÔŖŦR KÚŪŖŔB

ÅKŔ MŅ MÛŦŔŊŇ Ű ŌŰÖ ÖŖÛĿŊÖŖOŇ ÕKŦMKÕŊ KÔÚŊŦ ŊŖŔĿÛQŒŔÕ Ű ŌŨÖ ÚÖŊ T ŊŦĹŒŔŊŔÚKÛĹŰŎŖŦŌŨŌŊĿ

KŔŇ KŇÖNŦŌŔÕ ÚŖ KŒQĹÖŊ KTTŒŌKMŒŅ ŦŊÕÛŒÇÚĒŖŔĿĿ

Í **ŔNDUKŔŅŇ ĢKNÞKÕŌŘÕ**É ÆŪŪTŖUKOR ÛUÚMŅR KŇŅKNNŖŦŇŌŔÕÚŖÚÖŊKTTOŪKMOŅŦŅÕÛOKÚŌŖŔĿB

## I BẮN DẾ ĒL NÁ Đీ HA Ē I ĢĖ HÌ DỄ CĖ HË AÌ DẾ Ē

L'NEL' Í Ē ĚĒ ÛR MŅFÆĖ Ì AAÆHAŬĖ ÆÇAQAÌ AÆ

Ē ŖÚĦŊÕÛŒŲÚŊŇ

L'NBMÍ Ē TŦŖŢŊŦ LÖŌŢŢŌŖÕŔKŖŊÆĖÌÆAÆĦÆŬËÆÇĄQĄÌAÆ

Ē ŖÚĦŊÕÛŒŲŃŇ

L'ŃBN Ì TKŔUT RTÚÖKVÍCTŇ NOKULTNUGÆĖ Ì ÆAÆTHÆŬË ÆÇAQAÌ AÆ

Ē ŖÚĦŊÕÛŒŲŃŇ

L'ŃBŃ GKNÞŌKŌ ÕTRÛT ÆË Ì AAÆHAŬË ÆÇAQAÌ AÆ

Ē ŖÚĦŅÕÛŒŲŊŇ

L-ŃBŇ BŔŮŌŦŖŔŖŊŔÚKQÖKVÁKŦŇUÆĖ KŦŌŔŊŢŖŒQŨÚKŔÚÉ

ĒΒ

L'ŃBÑ I TNNŌKQTŦNNKÛÚŌRŔUÔRŦÛUNŦÆ

Ē ŖÚKTTOŌKMON

L-NEN Ì TKÝUT RTÚ TR MÛQ KNARTINTROUR AKKNU TÔROË AHGE ENNENN KKŇ ƯỚN TẨẮ ÁRŇNÁ

Ē ŖÚKTTOŌKMOŅ

ÍĒÎË ŖŇŅQĦŅÕÛQĶÚŌŖŔĨÆÉĚ

REVISED: 5/1/2023

## I BẮN VỀ Ē L-ŇÆHBÇÍ ĚAN Ė ĦIJ VỀ CĖ HË AN VỀ Ē

I AĦA

I NNÚTRÁ NŇŇ FNLÚTNA NOV ÖKVÁCTŇRÛULŮMUKÁNNUCÉ

I ÛMWKŔŊŊŌIJŔŖÚŌŪÚŊŇB

I NNÚTRÁ NL N FI TNNÍTŘÍN ÚRUĎI NÖNR ŌKOQŌLÚTŘÔUJÉ

I ÛMUKŔŊŊŌIJŔŖÚŌŌÚŊŇB

Ì I ẨA FÌ RƯỢNI ÛMUKŔNNU ẨR KÚTROANÚJÆ

I ÛMUKŔNŅŌŪŌŪÚŅŇB

ghé gé i dì dè ē ñň fắa ěďcé he ďag Áönr ōakouþárú á úr nkûun nkánnfæ

I ÛMUKŔNŅ ŔŖÚŒŪÚŅŇB

ÁÖNR ŌKQUÞŔŖŰŔÚŖNKÛUN ŦNTŦŖŇÛNŰŮŊÚŖŲŌŌŰVÔŖŦÔNRKQNUÉ

I ÛMWKŔŊŊŔŖÚŒŪÚŊŇB

ÁÖNR ŌKQUÞŔŖŰŔÚŖNKÛUN ŦŅŢŦŖŇÛNŰŌŮŊÚŖŲŌŪŌŹOŖŦRKQŅUÉ

I ÛMWKŔŊŊŔŖÚŒŪÚŊŇB

ÅÖNR ŌKQUÞŔŖŰŔ ÚŖ NKÛUN ŇŅŮŅŒRTR ŅŔÚKQÚŖŲŌŌÓVÆ

I ÛMWKŔŊŊŔŖÚŒĮÚŊŇ

ÁA HÁ ĎĒĖÇ BĒ ĎÁ ÁA Ì BÇĖ HĎBI

BĢA FBŔŮŌŖŔŖŅŔÚKQĢŦŖÚŅŊĹŌŖŔ AÕŅŔŊVĠÉ

I ÛMWKŔNN ŌJŔŖÚŒĴÚNŇB

ĎA HÁ FŮŘÚŅIFÁ KÚŪŖŔKQA ÕŅŔNV ÔŖŦ HIŅUŅKTNÖ ŖŔ ÁKŔNŅTGÆ

I ÛMUKŔŊŊŌIJŔŖÚŌŌÚŊŇB

Ē DĒ I DĚÁK FĒ KÚŌŖŔKQDŘUĆŌŪŪÚŅŌŖŦĖ NVÛTKÚŌŖŔKQI KÔŅÚVKŔŇ DŅKQÓÖGÆ

I ÛMUKŔNŊŌIJŔŖÚŌŌÚŊŇB

Ė I DA ĚÁK FĖ NNÛT KÚTRÝKŲ KÔNÚV Ĩ DŅKOĆÖ AŇR TROŪÚTKÚTRÝGÉ

I ÛMUKŔNŊ ŌIJŔŖÚŌŪÚŊŇB

ÅAĒ AÆĎAĒ IÍ ÅIÌ AĒ ÅB ĚĎIÌ ĎĒÇ

ÅKŔKŇŌKŔÆŖŖŅĿĹŌŊĬÛŊĿĹŔŊŊŮĔŌŲĹſÆIĔŒ

I ÛMUKŔNŊ ŌIJŌŌÚŅŇB

ÁKŔKŇŌKŔĎŔÕŦŊŇŌŊŔÚÆŌŪNOŖÚĴŦŊŌŌÚ FŌŌŖŌÚŁBĿŔGÉ

I ÛMUKŔNŅ ŌIJŔŖÚŌŌÚŅŇB

ÅKŔKŇŌKŔ ĎŔÕŦŊŇŌŊŔÚÆŌŪNOŖÚŨŦŊŒŪÚ FŒĪŖŌŰĿŔŒÉ

ŊŁŁĿĔMŇĔĿĔŒĸŲŊŊŇŖŌŒ

I BẨ Ì DẾ Ē ĿÑÆĖ Ì DBH DĒ CĖ HË AÌ DĒ Ē

REVISED: 5/1/2023

### Ē EÆŚ Ē ŖÚŇŅÚŅŦR ŌŘŅŇĄĒ EA Ś Ē ŖÚKTTOŌKMOŅ ĦŅOQŮKŔÚTÖTKUŅU

DŃĿĿÆÌ ŖŲŌNÚŖ KŢÛKÚŌNŌŌŅŰŌŰÖ ŒŖŔÕŒŲÚŌŔÕŅÔŌŅNÚLB

HŇĿĿŇŇÆÌ ŖŲŌNÚŖ KŢÛKÚŌNŖŦÕKŔŌŖ UĄR KV NKÛUN ŒJŔÕĚÚŅŦŖ KŇŮŅŦŲŅ ŅÔÔNNÚUŌŔ ÚÖŊ KŢÛKÚŌNŅŔŮŌŦŖŔŖ ŅŔÚB

#### AMMTNŮŌKÚŌRŔUKŔŇ ANTRŔVR UÉ

AÆĦÆ	ANNRTHŇ ŅŪTTRT ŅŅŔ LŪT ÉŅ LĪTKŔUT RTÚŇŅUR KTNÖKŔŇQQŅUŇKŔÕŅTŅŪLŅUT KT HRŪLŲN FBŪTRT ŅKŔ KÕTŅŅR ŅŔÚ
	NRŔNNFRÍŌĪO LÖN DŘÚNFRKÚÐRŔKOÅKTTŌĪON RÔÆKŔŌNFRÛUC RRŇUM/ HRKŇG

ĬĔÆÇÆ ĬŔÚŅŦŔKÚĪŖŔKŒ, KŦĪŎŪŖŅ ŖŇŊŌŖŦÆKŔÕŅŦŖÛUÇŖŖŇU

ÆĖÌÆ Í IÆŅTKTÚRŅŔÚŖÔÌTKŔUTŖTÚKÚŪŖŔ QAÌAÆ ĎŘÚNTŘKÚŪRŔKQAŌFÌTKŔUTŖTÚAULRNŪSÚŪRŔ

ÇDIÆ ÇORMKOQYDKTR RÁDÍMNÍ I VUÚNR RÔÅQKUTÖÐÐKÚÐRÁ KÁN ĚKIMNOÐÁÖRÐ ÖÐKOU

AÁÇ ÉDÆ AR ŅĦŌNKŔ ÁŖŔÔŅĦŅŔŊŊ ŖÔÇ ŖŮŅĦŔR ŅŔÚKQĬŘŇÛUĹŦŌKQD VÕŌŅŔŌŪÚU BĬĒ BÁ IÆBÛŦŖTŅKŔ ĬŔŮŅŔÚŖŦV ŖÔBŲŌŪÓĪŘÕ

ÅRR R ŅFINĪSQÅÖŅR ĪDKQI ÛMUÚKŔNŅUBĚĬĪĒ ÅIÆ

BÛTRTNKŔ ĚŌJÚRÔĒ ŖÚŌŌĐNŇ ÅÖNR ŌOKQI ÛMUÚKŔNNU

ÁAIÆ ÁÖŅR ŌOKQAMUÉTKNÚUI ŅFPŮŌNŅ FŇOŮŌŪŖŔ ŖÔÚÖŅ AR ŅFFŌOKŔ ÁÖŅR ŌOKQI ŖNŌŅÚVG

ĒĊĢAÆ ĒKÚŌŖŔKOĊŌĪŊĢTŖÚŅNÚŌŖŔAUĻŖNŌKÚŌŖŔFÍIAG DĔĎÆ DKVÍKTŇRÛUËKÚNTŌKOUĎŇNŔÚŌŌŌDKÚŌŖŔIVUÚNRFÍIAG

ÆĒ BĚÆ ÆNFOUNŇ Ē ŖĚBÔDNÚĚNŮŅOHBAÅDG

ĢĒ BẮĆ ĢTŅŇŌNÚŅŇ Ē ŖĚBÔÔŅNÚÅŖŔŊŅŔÚŦKÚŌŖŔ FHBAÅDG

ĚÅŇŁÆ ĚŅŰÖKQNŖŔŊŊŔÚŦĸÚŌŖŔĄŇŁŢŅŦŦŊŊŔÚ

ĚÆŇŁÆ ĚŅÚÖKQŇŖŲŊĄŇŁ TŅŦĪŊŅŔÚ

AŢÛKÚŌNÅÖŦŖŔŌNMÉ

DKVÍKTŇŖÛUÚŖÚÖŅKŢÛKÚŌNŅŔŮŌŖŔŖŅŔŰĚÅÖŦŖŔŌNDKVÍKTŇĄÅKÚŅÕŖŦVM

AŢÛKÚŌNÅÖŦŖŔŌNNÆ

DKVÍKTŇŖÛUÚŖÚÖŊKŢÛKÚŌŊŊŔŮŌŖŔŖŊŔŰĔÅÖŢŖŔŌŊDKVÍKŤŇĄÅKÚŅÕŖŦVŊ

### Ì DĎ I A ĊBÌ IJÆAÌ A I DBBÌ ẮĖ Ē Ì A ĎĒ I Ì DB ĊĖ ĚĚĖ I ĎĒ Ç ĦBĬ Ď ĎĒ Ē IÆ

Í TŇKÚŅUR KŇŅ ŌŠ KNNŖŦŇKŔNŅ Ű ŌŐÖ ŌR TOŅR ŅŔÚKÚŌŖŔ ŖÔÇ DI ŦŅŢÛŌĐŅR ŅŔÚLB

Ì ÖŅ ŌKÔŖŦR KƯỚŖŔ KŔŇ ŦŊNŖR R ŅŔŇKƯỚŖŔUNŖŔÚKŌKŅŇ ÖŅŦŊŌK KŦŊĄĆŖ ŰÖŅ MŅLÚŖÔÇ KR MOŌKÓLÞŔŖŰ QŅŇÕŅ KŔŇ MŅOŪŅÕĄ
KNNĴTKÚŅ KŔŇ ŦŊOŌKMOŅĄNĴÚŌŨŌŪŔŖÚŰ KTTKŔÚŅŇ ÚŖ MŅBIJŖÛ NKŔ NŖŔÚKNÚÇ KR MOOK ÚŖ ŅŔÚĴŦŊ LŰKÚŰÖŪŪŇŖNÛR ŅŔÚŌŪŰÖŅ
R ŖĹÚNĴTŦŊŔÚKŮKŌOKMOŅBÌ ÖŅ ŌKÔŖŦR KƯŌŖŔ KŔŇ ŦŊNŖR R ŅŔŇKƯŌŖŔUKŦŊ ŖÔŌŅĦŊŇ ŌŖŦŰÖŅ ÛLŊĦUNŖŔUŌŇſHKŪŌŖŔ KŔŇ
ŅŲKR ŌKKƯŌŖŔBĎÚŌUŰÖŅ ÛLŊĦUŦŊUTŖŔUŌMŌŌŪW ÚŖ UKŰŌŪVŌŨLŅOQŰÖKÚŰÖŊ TŦŖŇÛNÚŌULĴŌÚKMOŅ ŌŖŦŰÖŅ ŌKÚŅŔŇŊŇ ÛLŊ KŔŇ ŌŨŌU
ĹŐŊ ÛLŊĦŚUŢŊLTŖŔUŌMŌŌŌŨV ÓŖ NKŦŊÔŨOQV ŦŊKŇ ŰÖŊ TŦŖŇÛNÚQKMŅOÇKŔŇ ŌŖOOŖŰ ŌKUĹŤŨNLŌŖŔUŌŖŦUKÔŅ ÛLŊ ŖÔŰÖŊ TŦŖŇÛNĹB