SAFETY DATA SHEET



1. Identification

Product identifier MILFORM® 635

STAMPING AND DRAWING FLUID

Other means of identification

SDS number Not applicable B00457 **Product code**

Recommended use STAMPING AND DRAWING FLUID

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name CIMCOOL® Industrial Products LLC

> 3000 Disney Street Cincinnati, Ohio 45209

Telephone (General

Information)

513-458-8100

Emergency telephone

1-800-424-9300 (CHEMTREC)

number

Emergency telephone number (outside USA) 1-703-527-3887 (CHEMTREC)

Supplier

Company name DUBOIS CHEMICAL CANADA INC dba CIMCOOL® Canada

Address B1 - 1175 Appleby Line

Burlington, ON L7L 5H9 Canada

Telephone (General

Information)

905-319-1919

Emergency telephone number (outside USA) 1-703-527-3887 (CHEMTREC)

Supplier Not available.

2. Hazard identification

Not classified. Physical hazards

Skin irritation Category 2 **Health hazards**

> Serious eye irritation Category 2 Sensitization, skin Category 1

Environmental hazards Not classified.

Label elements



Signal word Warning

Hazard statement Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

Precautionary statement

Prevention Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the

workplace. Wear eye protection/face protection. Wear protective gloves.

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IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several Response

> minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Store away from incompatible materials. Storage

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

Other hazards None known.

Supplemental information 6.48% of the mixture consists of component(s) of unknown acute oral toxicity. 6.48% of the

mixture consists of component(s) of unknown acute dermal toxicity. 5.48% of the mixture consists

of component(s) of unknown acute inhalation toxicity.

The classified hazards shown on this SDS are associated with the product concentrate. These

hazards are not expected under recommended use conditions and dilution.

Use in manufacturing processes only.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
PETROLEUM DISTILLATES		64742-52-5	30 - 60
ALKANES, C14, CHLORO		63449-39-8	10 - 30
ALKYLARYL SODIUM SULFONATES		68411-30-3	5 - 10
DIETHYLENE GLYCOL MONOBUTYL ETHER		112-34-5	5 - 10
NONYLPHENOL, ETHOXYLATED)	127087-87-0	5 - 10
4-(2-NITROBUTYL)MORPHOLINE	<u> </u>	2224-44-4	0.1 - 1
Other components below reportab	le levels		10 - 30

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist. Under normal conditions of

intended use, this material is not expected to be an inhalation hazard.

Rinse skin with water. If skin irritation or rash occurs: Get medical advice/attention. Wash Skin contact

contaminated clothing before reuse.

Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical Eye contact

attention if irritation develops and persists.

Rinse mouth thoroughly. Do not induce vomiting. Do not give liquids. If vomiting occurs, keep head Ingestion

low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel

unwell.

Most important

symptoms/effects, acute and

delayed

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May

cause an allergic skin reaction.

Indication of immediate medical attention and special

treatment needed **General information** Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

If exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in

attendance.

5. Fire-fighting measures

Suitable extinguishing media

Foam. Dry chemical powder. Carbon dioxide (CO2). Use extinguishing measures that are

appropriate to local circumstances and the surrounding environment. Do not use water jet as an extinguisher, as this will spread the fire.

Unsuitable extinguishing media

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment

Wear suitable protective equipment.

and precautions for firefighters Fire fighting

Move containers from fire area if you can do so without risk.

equipment/instructions

Specific methods

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

event of fire and/or explosion do not breathe fumes.

General fire hazards

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. 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

Local authorities should be advised if significant spillages cannot be contained. This product is miscible in water. Prevent entry into waterways, sewer, basements or confined areas. Clean up in accordance with all applicable regulations.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). 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. Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental

Environmental precautions

7. Handling and storage

Precautions for safe handling

Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. If frozen, product may separate. Thaw completely at room temperature and stir thoroughly prior to use. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

contamination.

Occupational exposure limits

ACGIH Components	Туре	Value	
PETROLEUM DISTILLATES (CAS 64742-52-5)	TWA	5 mg/m3	
US. ACGIH Threshold Lim	it Values		
Components	Туре	Value	Form
DIETHYLENE GLYCOL MONOBUTYL ETHER (CAS 112-34-5)	TWA	10 ppm	Inhalable fraction and vapor.
Canada, Manitoba OELs (Reg. 217/2006, The Workplace Safety	And Health Act)	
Components	Туре	Value	Form
DIETHYLENE GLYCOL MONOBUTYL ETHER (CAS 112-34-5)	TWA	10 ppm	Inhalable fraction and vapor.
Canada, Ontario OELs. (C	ontrol of Exposure to Biological or Cl	nemical Agents)	
	Туре	Value	Form
Components	. , , , ,		
Components DIETHYLENE GLYCOL MONOBUTYL ETHER (CAS 112-34-5)	TWA	10 ppm	Inhalable fraction and vapor.

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. Provide eyewash station and safety shower

Individual protection measures, such as personal protective equipment

Eye/face protection

Do not get in eyes. Wear safety glasses with side shields (or goggles). Eye wash fountain is

recommended.

Skin protection

Hand protection Nitrile gloves are recommended.

Other Wear appropriate chemical resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Do not get in eyes, on skin, on clothing. 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 CLEAR

Physical stateLiquid.FormLiquid.

Color Not available.

Odor CHEMICAL
Odor threshold Not available.

pH Not Applicable

Melting point/freezing point < 8 °F (< -13.3 °C)

Initial boiling point and boiling

range

Flash point 385 °F (196.1 °C) Cleveland Open Cup

Not available.

Evaporation rate Like water when diluted

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.

Vapor pressure Not available.

Vapor density Not available.

Relative density 1.03

Solubility(ies)

Solubility (water) 100 % Water Miscible

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Bulk density8.6 lb/gal @ 60°FExplosive propertiesNot explosive.Flash point classCombustible IIIBOxidizing propertiesNot oxidizing.

7.2 @ 10% pH in aqueous solution Specific gravity 1.0301 VOC ASTM D2369 8.2 %

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 Hazardous polymerization does not occur.

reactions

Heat, flames and sparks. Contact with incompatible materials. Conditions to avoid

Incompatible materials Acids. Oxidizing agents.

Hazardous decomposition

products

Smoke, fumes, hydrogen chloride, and oxides of carbon

11. Toxicological information

Information on likely routes of exposure

Inhalation Health injuries are not known or expected under normal use. Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eve contact Causes eye irritation.

Ingestion Expected to be a low ingestion hazard. Health injuries are not known or expected under normal

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing,

redness, swelling, and blurred vision. Skin irritation. May cause an allergic skin reaction.

Information on toxicological effects

Acute toxicity

Components	Species	Test Results
ALKANES, C14, CHLOR	O (CAS 63449-39-8)	
Acute		

Dermal Liquid

Rabbit LD50 > 2000 mg/kg ATE

Inhalation

Mist

LC50 Rat > 5 mg/l, 4 hours ATE

Oral

Liquid

LD50 Rat > 5000 mg/kg ATE

ALKYLARYL SODIUM SULFONATES (CAS 68411-30-3)

Acute Oral Solid

LD50 Rat 404 mg/kg

DIETHYLENE GLYCOL MONOBUTYL ETHER (CAS 112-34-5)

Acute Dermal Liquid

LD50 Rabbit 2764 mg/kg

Oral Liquid

LD50 Rat 3305 mg/kg

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NONYLPHENOL, ETHOXYLATED (CAS 127087-87-0)

Acute
Dermal
Liquid

LD50 Rabbit 1883 - 4164 mg/kg

Inhalation

Mist

LC50 Rat 21.3 mg/l, 8 hours

Oral Liquid

LD50 Rat > 5000 mg/kg

PETROLEUM DISTILLATES (CAS 64742-52-5)

Acute
Dermal
Liquid

LD50 Rabbit > 5000 mg/kg

Inhalation

Mist LD50

Rat > 5.1 mg/l, 4 hours ATE

Oral Liquid

LD50 Rat > 5000 mg/kg

Skin corrosion/irritation
Serious eye damage/eye

irritation

Causes skin irritation. Causes eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Oil /Distillate meets the EU requirement of less than 3% (w/w) DMSO extract for total polycyclic

aromatic compound (PAC) using IP 346.

Reproductive toxicityThis 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 Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

Further information The classification for health and environmental hazards is derived by a combination of calculation

methods and test data, if available.

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

ALKANES, C14, CHLORO (CAS 63449-39-8)

Aquatic

Acute

Fish LC50 Bluegill (Lepomis macrochirus) > 0.1 mg/l, 96 hours

Components Species Test Results

ALKYLARYL SODIUM SULFONATES (CAS 68411-30-3)

Aquatic

Acute

Crustacea EC50 Daphnia 1.62 mg/l, 48 hours OECD Fish LC50 Fish 1.67 mg/l, 96 hours OECD

DIETHYLENE GLYCOL MONOBUTYL ETHER (CAS 112-34-5)

Aquatic

Acute

Crustacea EC50 Daphnia > 100 mg/l, 48 hours
Fish LC50 Bluegill (Lepomis macrochirus) 1300 mg/l, 96 hours

NONYLPHENOL, ETHOXYLATED (CAS 127087-87-0)

Aquatic

Acute

Crustacea EC50 Daphnia 1.6 - 10 mg/l, 48 hours
Fish LC50 Fathead minnow (Pimephales promelas) 1.2 - 9.3 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

ALKYLARYL SODIUM SULFONATES 3.32, OECD SIDS - CALC'D

DIETHYLENE GLYCOL MONOBUTYL ETHER 1

NONYLPHENOL, ETHOXYLATED 3.7 - 4.5

Mobility in soil This product is miscible with water.

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 instructionsCollect 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 of 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

TDG

UN number UN3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALKANES, C14, CHLORO),

MARINE POLLUTANT

Transport hazard class(es)

Class 9
Subsidiary risk Packing group III
Environmental hazards Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number UN3082

UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (ALKANES, C14, CHLORO)

Transport hazard class(es)

Class 9
Subsidiary risk Packing group III

Environmental hazards Yes **ERG Code** 9L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

Cargo aircraft only

aircraft

Allowed with restrictions.

Allowed with restrictions.

IMDG

UN number UN3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALKANES, C14, CHLORO),

MARINE POLLUTANT

Transport hazard class(es)

9 Class Subsidiary risk Ш Packing group

Environmental hazards

Marine pollutant Yes F-A, S-F **EmS**

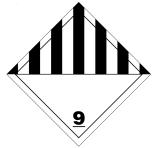
Transport in bulk according to

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Not established.

Annex II of MARPOL 73/78 and

the IBC Code

IATA; IMDG; TDG



Marine pollutant



General information IMDG Regulated Marine Pollutant.

15. Regulatory information

Canadian regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS

contains all the information required by the HPR.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations

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Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories Country(a) or region

Country(s) or region	inventory name	On inventory or exempt (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)	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)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
	Australia Canada Canada China Europe Europe Japan Korea New Zealand Philippines	Australia Australian Inventory of Chemical Substances (AICS) Canada Domestic Substances List (DSL) Canada Non-Domestic Substances List (NDSL) China Inventory of Existing Chemical Substances in China (IECSC) Europe European Inventory of Existing Commercial Chemical Substances (EINECS) Europe European List of Notified Chemical Substances (ELINCS) Japan Inventory of Existing and New Chemical Substances (ENCS) Korea Existing Chemicals List (ECL) New Zealand New Zealand Inventory Philippines Philippine Inventory of Chemicals and Chemical Substances (PICCS)

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other information

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NFPA ratings Health: 1

Flammability: 1 Instability: 0

Inventory name

The information provided in this Safety Data Sheet is correct to the best of our knowledge, Disclaimer

> information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

materials or in any process, unless specified in the text.

Hazard identification: Hazard statement **Revision information**

Hazard identification: GHS Signal Words Hazard identification: Supplemental information Composition / Information on Ingredients: Ingredients

Accidental release measures: Methods and materials for containment and cleaning up

Physical & Chemical Properties: Multiple Properties

Physical and chemical properties: Odor Toxicological information: Carcinogenicity Toxicological information: Ingestion Ecological information: Mobility in soil Regulatory information: Canadian regulations

GHS: Classification

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On inventory or exempt (yee/ne)*