SAFETY DATA SHEET



1. Identification

Product identifier CIMPULSE™ 49MP

METALWORKING FLUID

Other means of identification

SDS number Not applicable Product code B01907

Recommended use METALWORKING 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

number

1-800-424-9300 (CHEMTREC)

Emergency telephone number (outside USA)

1-703-527-3887 (CHEMTREC)

Supplier

Company name Milacron Canada Corp.

Address 1175 Appleby Line Road, Unit B-1
Burlington Ontario L7L5H9 Canada

Telephone (General

Information)

905-319-1919

Emergency telephone number (outside USA)

1-703-527-3887 (CHEMTREC)

Supplier Not available.

2. Hazard identification

Physical hazards Not classified.

Health hazards Skin irritation

Health hazardsSkin irritationCategory 2Serious eye irritationCategory 2Sensitization, skinCategory 1

Environmental hazards Not classified.

Label elements



Signal word Warning

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

Precautionary statement

Prevention Avoid breathing mist/vapor. Wash thoroughly after handling. Contaminated work clothing should

not be allowed out of the workplace. Wear eye protection/face protection. Wear protective gloves.

IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical Response

advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. 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 1.67% of the mixture consists of component(s) of unknown acute oral toxicity. 1.67% of the

mixture consists of component(s) of unknown acute dermal 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.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
SEVERELY-HYDROTREATED NAPHTHENIC DISTILLATES		64742-52-5	10 - 30
3-METHOXYPROPYLAMINE		5332-73-0	1 - 5
AMINOMETHYLPROPANOL		124-68-5	1 - 5
ARYL, ALKYL DERIVS., SULFONATED SODIUM SALTS		148520-82-5	1 - 5
MONOETHANOLAMINE		141-43-5	1 - 5
TRIAZINETRIETHANOL		4719-04-4	1 - 5
TRIETHANOLAMINE		102-71-6	1 - 5
Other components below reportable	levels		60 - 80

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. Drink 1 or 2 glasses of water. Do not induce vomiting. If vomiting occurs, Ingestion

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

vou feel unwell.

Most important symptoms/effects, acute and

delayed

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.

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

2/9

attendance.

5. Fire-fighting measures

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

> 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

equipment/instructions

the chemical

Specific hazards arising from

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Wear suitable protective equipment.

Fire fighting

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

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/vapor. 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. 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.

Environmental precautions

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 contamination.

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. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

V-1...

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. Do not allow material to freeze. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

ACGIH

	Туре	Value	
SEVERELY-HYDROTREAT ED NAPHTHENIC DISTILLATES (CAS 64742-52-5)	TWA	5 mg/m3	
US. ACGIH Threshold Limit Values			
	Туре	Value	
MONOETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3	
Canada. Alberta OELs (Occupatio	nal Health & Safety Code, Sc	nedule 1, Table 2)	
, ,	Туре	Value	
MONOETHANOLAMINE (CAS 141-43-5)	STEL	15 mg/m3	
		6 ppm	
	TWA	7.5 mg/m3	
		3 ppm	
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3	

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

	Туре	Value	
MONOETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3	

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

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MONOETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3	

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

	Туре	Value	
MONOETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	
TRIETHANOLAMINE (CAS 102-71-6)	TWA	3.1 mg/m3	
		0.5 ppm	

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

	Туре	Value	
MONOETHANOLAMINE (CAS 141-43-5)	STEL	15 mg/m3	
		6 ppm	
	TWA	7.5 mg/m3	
		3 ppm	
TRIETHANOLAMINE (CAS	TWA	5 mg/m3	

Biological limit values

Appropriate engineering controls

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

Good general ventilation (typically 10 air changes per hour) 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 Wear safety glasses with side shields (or goggles). Do not get in eyes. 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 state Liquid.
Form Liquid.
Color Not available.
Odor CHEMICAL

Odor threshold Not available.

pH 9.8

Melting point/freezing point $< 25 \,^{\circ}\text{F} (< -3.9 \,^{\circ}\text{C})$ Initial boiling point and boiling $> 212 \,^{\circ}\text{F} (> 100 \,^{\circ}\text{C})$

range

Flash point Not Applicable

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 Not available.

Solubility(ies)

Solubility (water) 100 % Water Miscible

Partition coefficient

Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Explosive properties

Oxidizing properties

PH in aqueous solution

Specific gravity

VOC ASTM D2369

Not explosive.

Not oxidizing.

8.6 @ 5%

1.018

1.018

10. Stability and reactivity

ReactivityThe 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

Conditions to avoid

reactions

No dangerous reaction known under conditions of normal use.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with

incompatible materials.

Incompatible materialsDo not add sodium nitrite or other nitrosating agents which may form cancer causing nitrosamines.

Acids. Oxidizing agents.

Hazardous decomposition

products

Smoke, fumes, oxides of nitrogen, and oxides of carbon

11. Toxicological information

Information on likely routes of exposure

Inhalation Not classified.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eye contact Causes eye irritation.

Ingestion Not classified.

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

AMINOMETHYLPROPANOL (CAS 124-68-5)

Acute Dermal

Liquid

LD50 Rabbit > 2000 mg/kg

Oral

Liquid

LD50 Rat 2900 mg/kg

ARYL, ALKYL DERIVS., SULFONATED SODIUM SALTS (CAS 148520-82-5)

Acute Oral

Solid

LD50 Rat 404 mg/kg

SEVERELY-HYDROTREATED NAPHTHENIC DISTILLATES (CAS 64742-52-5)

Acute

Dermal

Liquid

LD50 Rabbit > 5000 mg/kg

Inhalation

Mist

LC50 Rat > 5 mg/l, 4 hours

Oral *Liquid*

LD50 Rat > 5000 mg/kg

TRIAZINETRIETHANOL (CAS 4719-04-4)

<u>Acute</u>

Dermal

Liquid

LD50 Rat 4000 mg/kg

Oral

Liquid

LD50 Rat 1000 mg/kg

TRIETHANOLAMINE (CAS 102-71-6)

Acute

Dermal

Liquid

LD50 Rabbit > 2000 mg/kg

Oral

Liquid

LD50 Rat 4190 mg/kg

Skin corrosion/irritationCauses skin irritation.Serious eye damage/eyeCauses eye irritation.

irritation

Respiratory or skin sensitization

Canada - Alberta OELs: Irritant

MONOETHANOLAMINE (CAS 141-43-5) Irritant
TRIETHANOLAMINE (CAS 102-71-6) Irritant

Canada - Quebec OELs: Sensitizer

TRIETHANOLAMINE (CAS 102-71-6) Sensitizer.

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.

IARC Monographs. Overall Evaluation of Carcinogenicity

TRIETHANOLAMINE (CAS 102-71-6) 3 Not classifiable as to carcinogenicity to humans.

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 Not classified.

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 Contains a substance which causes risk of hazardous effects to the environment.

Components Species Test Results

3-METHOXYPROPYLAMINE (CAS 5332-73-0)

Aquatic

Acute

Crustacea EC50 Daphnia 65 mg/l, 48 hours

AMINOMETHYLPROPANOL (CAS 124-68-5)

Aquatic

Acute

Crustacea EC50 Daphnia 193 mg/l, 48 hours Fish LC50 Bluegill (Lepomis macrochirus) 190 mg/l, 96 hours

ARYL, ALKYL DERIVS., SULFONATED SODIUM SALTS (CAS 148520-82-5)

Aquatic

Acute

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

MONOETHANOLAMINE (CAS 141-43-5)

Aquatic

Fish LC50 Rainbow trout, donaldson trout 114 - 196 mg/l, 96 hours

(Oncorhynchus mykiss)

Acute

Crustacea EC50 Daphnia 65 mg/l, 48 hours ECHA

TRIAZINETRIETHANOL (CAS 4719-04-4)

Aquatic

Acute

 Crustacea
 EC50
 Daphnia
 11.9 mg/l, 48 hours ECHA

 Fish
 LC50
 Fish
 16 - 240 mg/l, 96 hours ECHA

TRIETHANOLAMINE (CAS 102-71-6)

Aquatic

Crustacea EC50 Water flea (Ceriodaphnia dubia) 565.2 - 658.3 mg/l, 48 hours

Components Species Test Results

Acute

Fish LC50 Bluegill (Lepomis macrochirus) 450 - 1000 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)

3-METHOXYPROPYLAMINE -0.5

ARYL, ALKYL DERIVS., SULFONATED SODIUM SALTS 3.32, OECD SIDS - CALC'D

MONOETHANOLAMINE -1.31
TRIAZINETRIETHANOL -2
TRIETHANOLAMINE -2.3

Bioconcentration factor (BCF)

MONOETHANOLAMINE < 3.2, ESTIMATED

Mobility in soil This product is miscible in 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 packagingSince 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

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and

the IBC Code

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

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories Country(s) 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)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
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	Yes

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

No

Philippine Inventory of Chemicals and Chemical Substances

16. Other information

Philippines

Issue date 09-08-2016 08-28-2018 **Revision date**

Version # 03 Health: 1 NFPA ratings

> Flammability: 0 Instability: 0

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

> 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.

This document has undergone significant changes and should be reviewed in its entirety. **Revision information**

Version #: 03 Revision date: 08-28-2018 9/9

Issue date: 09-08-2016

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