SAFETY DATA SHEET



1. Identification

Product identifier CIMPULSE™ 51MP

METALWORKING FLUID

Other means of identification

SDS number Not applicable
Product code B01895

Recommended use METALWORKING FLUID

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name CIMCOOL® Industrial Products LLC

3000 Disney Street Cincinnati, Ohio 45209

Telephone (General

Information)

Emergency telephone

number

Emergency telephone

number (outside USA)

513-458-8100

1-800-424-9300 (CHEMTREC)

1-703-527-3887 (CHEMTREC)

Supplier

Company name Milacron Canada Corp.

Address 1175 Appleby Line Road, Unit B-1

905-319-1919

Burlington Ontario L7L5H9 Canada

Telephone (General

Information)

Emergency telephone

number (outside USA)

1-703-527-3887 (CHEMTREC)

Supplier Not available.

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Serious eye irritation Category 2A

Environmental hazards Not classified.

Label elements



Signal word Warning

Hazard statement Causes serious eye irritation.

Precautionary statement

Prevention Wash thoroughly after handling. Wear eye protection/face protection.

Response 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.

Storage Store away from incompatible materials.

Material name: CIMPULSE™ 51MP

Version #: 01 Issue date: 08-25-2016

1 / 9

Disposal

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

Other hazards None known.

Supplemental information 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 PETROLEUM DISTILLATES		64742-52-5	≤60
AMINOMETHYLPROPANOL		124-68-5	≤10
TRIETHANOLAMINE		102-71-6	≤10
ALCOHOLS, ETHOXYLATED		157627-86-6	≤5
ETHOXYLATED AMINE		68478-5-5	≤3
MONOISOPROPANOLAMINE		78-96-6	≤3
Other components below reportab	ole levels		≤40

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

4. First-aid measures

Move to fresh air. Call a POISON CENTER or doctor/physician if you feel unwell. Under normal Inhalation

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

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

contaminated clothing and wash 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. Drink 1 or 2 glasses of water. Do not induce vomiting. 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

Indication of immediate medical attention and special

treatment needed

General information

Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

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

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

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment

and precautions for firefighters

Wear suitable protective equipment.

Fire fighting

Specific methods

equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk.

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.

Material name: CIMPULSE™ 51MP

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. Do not breathe mist or 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.

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

Environmental precautions

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.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Do not allow material to freeze. Store away from incompatible materials (see Section 10 of the SDS). If frozen, product may separate. Thaw completely at room temperature and stir thoroughly prior to use.

8. Exposure controls/personal protection

Occupational exposure limits

ACGIH

AUGIII			
	Туре	Value	
SEVERELY-HYDROTREAT ED NAPHTHENIC PETROLEUM DISTILLATES (CAS 64742-52-5)	TWA	5 mg/m3	
US. ACGIH Threshold Limit Value	-		
	Туре	Value	
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3	
Canada. Alberta OELs (Occupatio	nal Health & Safety Code, Sc	nedule 1, Table 2)	
•	Туре	Value	
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3	
Canada. British Columbia OELs. (Safety Regulation 296/97, as amer		s for Chemical Substances, Occupational Health	and
,	Туре	Value	
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3	
Canada. Manitoba OELs (Reg. 217	7/2006, The Workplace Safety	And Health Act)	
	Туре	Value	
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3	
Canada. Ontario OELs. (Control o	f Exposure to Biological or C	hemical Agents)	
•	Туре	Value	
TRIETHANOLAMINE (CAS	TWA	3.1 mg/m3	

Material name: CIMPULSE™ 51MP Version #: 01 Issue date: 08-25-2016 Type Value

0.5 ppm

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Type Value

TRIETHANOLAMINE (CAS TWA 5 mg/m3

102-71-6)

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

Appropriate engineering

controls

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. Eye wash fountain and emergency showers are recommended.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Avoid contact with eyes. Eye wash fountain is

recommended.

Skin protection

Hand protection Use protective gloves made of: Nitrile.

Other Wear suitable protective 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.

ColorNot available.OdorCHEMICALOdor thresholdNot available.

pH 10.3

Melting point/freezing point $-3 \,^{\circ}\text{F} \, (-19.4 \,^{\circ}\text{C})$ 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. Not available. **Decomposition temperature Viscosity** Not available.

Other information

Explosive properties Not explosive. **Oxidizing properties** Not oxidizing. pH in aqueous solution 9.2 @ 5% 0.984 Specific gravity

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

reactions

No dangerous reaction known under conditions of normal use.

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

Acids. Oxidizing agents. Do not add sodium nitrite or other nitrosating agents which may form Incompatible materials

cancer causing nitrosamines.

Hazardous decomposition

products

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

11. Toxicological information

Information on likely routes of exposure

Not classified. Inhalation Not classified. Skin contact

Eye contact Causes serious eye irritation.

Not classified. Ingestion

Symptoms related to the

physical, chemical and toxicological

Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

characteristics

Information on toxicological effects

Acute toxicity Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Components **Species Test Results**

ALCOHOLS, ETHOXYLATED (CAS 157627-86-6)

Acute Oral Liquid

LD50 Rat > 2000 mg/kg

AMINOMETHYLPROPANOL (CAS 124-68-5)

Acute Dermal

Liauid

LD50 Rabbit > 2000 mg/kg

Oral Liquid

LD50 Rat 2900 mg/kg

ETHOXYLATED AMINE

Acute

Oral Liquid

LD50 Rat 1000 - 2000 mg/kg

Material name: CIMPULSE™ 51MP SDS Canada

Test Results Components **Species**

MONOISOPROPANOLAMINE (CAS 78-96-6)

Acute Dermal

Liquid

LD50 Rabbit 1576 mg/kg

Inhalation

Mist

LC0 Rat 1005 mg/m3, 3 hours

Oral

Liquid

LD50 Rat 2813 mg/kg

SEVERELY-HYDROTREATED NAPHTHENIC PETROLEUM 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

TRIETHANOLAMINE (CAS 102-71-6)

Acute Dermal

Liquid

LD50 Rabbit > 2000 mg/kg

Oral

LD50 Guinea pig 5300 mg/kg

Liquid

LD50 Rat 4190 mg/kg

Skin corrosion/irritation Not classified.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Corneal opacity value 0.0000 0.3333 Iris lesion value Conjunctival reddening 2.0000

value

1.6700 Conjunctival oedema value 14 Recover days

Respiratory or skin sensitization

Canada - Alberta OELs: 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 Not classified.

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

mutagenic or genotoxic.

Carcinogenicity

^{*} Estimates for product may be based on additional component data not shown.

IARC Monographs. Overall Evaluation of Carcinogenicity

TRIETHANOLAMINE (CAS 102-71-6)

3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity

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

Specific target organ

toxicity - single exposure

Specific target organ toxicity - repeated

Aspiration hazard

exposure

Not classified.

Not classified.

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
ALCOHOLS, ETHOXY	YLATED (CAS 1576	627-86-6)	
Aquatic			
Acute			
Crustacea	EC50	Daphnia	0.1 - 1 mg/l, 48 hours
Fish	LC50	Zebra danio (Danio rerio)	1 - 10 mg/l, 96 hours
AMINOMETHYLPROP	PANOL (CAS 124-6	68-5)	
Aquatic			
Acute			
Crustacea	EC50	Daphnia	193 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	190 mg/l, 96 hours
MONOISOPROPANO	LAMINE (CAS 78-9	96-6)	
Aquatic			
Fish	LC50	Goldfish (Carassius auratus)	210 mg/l, 96 hours
Acute			
Crustacea	EC50	Daphnia	109 mg/l, 48 hours
SEVERELY-HYDROT	REATED NAPHTH	IENIC PETROLEUM DISTILLATES (CAS 6	64742-52-5)
Aquatic			
Acute			
Crustacea	EC50	Daphnia	> 1000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales prome	elas) > 30000 mg/l, 96 hours
TRIETHANOLAMINE	(CAS 102-71-6)		
Aquatic			

Water flea (Ceriodaphnia dubia)

Fathead minnow (Pimephales promelas) 10610 - 13010 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Crustacea

Fish

Partition coefficient n-octanol / water (log Kow)

MONOISOPROPANOLAMINE -0.93**TRIETHANOLAMINE** -1

EC50

LC50

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 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.

Material name: CIMPULSE™ 51MP SDS Canada

565.2 - 658.3 mg/l, 48 hours

^{*} Estimates for product may be based on additional component data not shown.

Dispose in accordance with all applicable regulations. Local disposal 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).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

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

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	Inventory name	On inventory or exempt (yes/no)*
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)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

Country(s) or region Inventory name On inventory or exempt (yes/no)*

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

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

16. Other information

Issue date 08-25-2016

Version # 01

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.

Revision information Product and Company Identification: Product and Company Identification

> Hazards Identification: US Hazard Categories Composition / Information on Ingredients: Ingredients

Physical & Chemical Properties: Multiple Properties

Transport Information: Agency Name, Packaging Type, and Transport Mode Selection

Regulatory Information: United States

Material Attributes & Uses; Experimental Data: Product Uses

HazReg Data: Pacific Rim GHS: Classification

Material name: CIMPULSE™ 51MP SDS Canada 9/9