

## 1. Chemical Product and Company Identification

**Material name** CIMSTAR® S2 PINK  
 METALWORKING FLUID  
**Version #** 02  
**Issue date** 10-02-2014  
**Revision date** 09-06-2016  
**Supersedes date** 10-02-2014  
**CAS #** Mixture  
**MSDS Number** Not applicable  
**Recommended use** METALWORKING FLUID  
**Manufacturer**

**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)

## 2. Hazards Identification

**Emergency overview** May cause an allergic skin reaction. Avoid prolonged contact with eyes, skin and clothing.

### Potential health effects

**Routes of exposure** Ingestion. Skin contact. Eye contact.  
**Eyes** Health injuries are not known or expected under normal use.  
**Skin** May cause sensitization by skin contact. Avoid contact with the skin.  
**Inhalation** Health injuries are not known or expected under normal use.  
**Ingestion** Health injuries are not known or expected under normal use.

## 3. Composition/Information on Ingredients

Components	CAS #	Percent
SEVERELY-HYDROTREATED NAPHTHENIC PETROLEUM DISTILLATES	64742-52-5	7 - 13
ARYL, ALKYL DERIVS., SULFONATED SODIUM SALTS	68411-30-3	0.5 - 1.5
DIISOPROPANOLAMINE	110-97-4	0.5 - 1.5

Components	CAS #	Percent
4-(2-NITROBUTYL)MORPHOLINE	2224-44-4	0.1 - 1
Other components below reportable levels		60 - 100

## 4. FIRST AID MEASURES

### First aid procedures

<b>Inhalation</b>	Move to fresh air. Call a POISON CENTER or doctor/physician if you feel unwell. Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
<b>Skin contact</b>	Rinse skin with water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Eye contact</b>	Rinse with water. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth thoroughly. Drink 1 or 2 glasses of water. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

<b>Notes to physician</b>	Provide general supportive measures and treat symptomatically. Symptoms may be delayed.
<b>General advice</b>	If exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.

## 5. FIRE FIGHTING MEASURES

<b>Flammable properties</b>	Not flammable by WHMIS criteria.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Foam. Dry chemical powder. Carbon dioxide (CO2). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Protective equipment for firefighters</b>	Wear suitable protective equipment.
<b>Fire fighting equipment/instructions</b>	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.
<b>Explosion data</b>	
<b>Sensitivity to static discharge</b>	Not applicable.
<b>Sensitivity to mechanical impact</b>	Not applicable.
<b>Hazardous combustion products</b>	Smoke, fumes, oxides of nitrogen, and oxides of carbon

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protective equipment. 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 MSDS.
<b>Environmental precautions</b>	Contact local authorities in case of spillage to drain/aquatic environment. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.
<b>Methods for containment</b>	Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.

**Methods for cleaning up**

This product is miscible in water. Should not be released into the environment. 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 MSDS.

**Other information**

Clean up in accordance with all applicable regulations.

**7. HANDLING AND STORAGE****Handling**

Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Avoid breathing mist or vapor. Avoid contact with eyes. Avoid contact with skin. When using do not eat or drink. Do not use in areas without adequate ventilation. Wash thoroughly after handling. Avoid release to the environment.

**Storage**

Store in a closed container away from incompatible materials. Do not allow material to freeze. Use care in handling/storage. Store away from incompatible materials (see Section 10 of the MSDS). 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**

	Type	Value
SEVERELY-HYDROTREATED NAPHTHENIC PETROLEUM DISTILLATES (CAS 64742-52-5)	TWA	5 mg/m3

**U.S. - OSHA**

	Type	Value
SEVERELY-HYDROTREATED NAPHTHENIC PETROLEUM DISTILLATES (CAS 64742-52-5)	PEL	5 mg/m3

**Biological limit values**

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

**Engineering controls**

Ensure adequate ventilation, especially in confined areas. Eye wash fountain and emergency showers are recommended.

**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**

Wear suitable protective clothing.

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection**

Use protective gloves made of: Nitrile.

**9. PHYSICAL & CHEMICAL PROPERTIES****Appearance**

CLEAR

**Physical state**

Liquid.

**Form**

Liquid.

**Color**

Not available.

**Odor**

Chemical

**Odor threshold**

Not available.

**pH**

10.0

**Vapor pressure**

Not available.

Vapor density	Not available.
Boiling point	> 212 °F (> 100 °C)
Melting point/Freezing point	< 32 °F (< 0 °C)
Solubility (water)	100 % Water Miscible
Specific gravity	0.994
Relative density	Not available.
Flash point	Not Applicable
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.
Evaporation rate	Like water when diluted
Other data	
Flammability (solid, gas)	Not applicable.
pH in aqueous solution	8.8 @ 5%
VOC ASTM D2369	4 %

## 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.
Conditions to avoid	Heat, flames and sparks. Contact with incompatible materials.
Incompatible materials	Acids. Oxidizing agents. Do not add sodium nitrite or other nitrosating agents which may form cancer causing nitrosamines.
Hazardous decomposition products	Smoke, fumes, oxides of nitrogen, and oxides of carbon
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.

## 11. TOXICOLOGICAL INFORMATION

### Toxicological data

Components	Species	Test Results
ARYL, ALKYL DERIVS., SULFONATED SODIUM SALTS (CAS 68411-30-3)		
<u>Acute</u>		
Oral		
LD50	Rat	404 mg/kg
DIISOPROPANOLAMINE (CAS 110-97-4)		
<u>Acute</u>		
Dermal		
Liquid		
LD50	Rabbit	8000 mg/kg
Oral		
Liquid		
LD50	Guinea pig	2800 mg/kg
	Mouse	2120 mg/kg
	Rabbit	4700 mg/kg
	Rat	4765 mg/kg
SEVERELY-HYDROTREATED NAPHTHENIC PETROLEUM DISTILLATES (CAS 64742-52-5)		
<u>Acute</u>		
Dermal		
Liquid		
LD50	Rabbit	> 2000 mg/kg

Components	Species	Test Results
<b>Inhalation</b>		
<i>Mist</i>		
LC50	Rat	2.18 mg/l, 4 hr
<b>Oral</b>		
<i>Liquid</i>		
LD50	Rat	> 5000 mg/kg
<b>Acute effects</b>	May cause an allergic skin reaction.	
<b>Sensitization</b>	May cause sensitization by skin contact.	
<b>Chronic effects</b>	Not classified.	
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
<b>Skin corrosion/irritation</b>	Not classified.	
<b>Serious eye damage/irritation</b>	Not classified.	
<b>Mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
<b>Reproductive effects</b>	This product is not expected to cause reproductive or developmental effects.	
<b>Teratogenicity</b>	Not classified.	
<b>Symptoms and target organs</b>	Direct contact with eyes may cause temporary irritation. Exposure may cause temporary irritation, redness, or discomfort. May cause an allergic skin reaction.	
<b>Synergistic materials</b>	Not applicable.	
<b>Further information</b>	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.	

## 12. ECOLOGICAL INFORMATION

### Ecotoxicological data

Components	Species		Test Results
DIISOPROPANOLAMINE (CAS 110-97-4)			
Aquatic			
Acute			
Crustacea	EC50	Daphnia	277.7 mg/l, 48 hours
Fish	LC50	Ide, silver or golden orfe (Leuciscus idus)	> 1000 mg/l, 96 hours
SEVERELY-HYDROTREATED NAPHTHENIC PETROLEUM DISTILLATES (CAS 64742-52-5)			
Aquatic			
Acute			
Crustacea	EC50	Daphnia	> 10000 mg/l, 48 hours
Fish	LC50	Fish	> 100 mg/l, 96 hours
Chronic			
Crustacea	NOEC	Daphnia	10 mg/l, 21 days
Fish	NOEC	Fish	> 100 mg/l
Ecotoxicity	Contains a substance which causes risk of hazardous effects to the environment.		
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.		
Aquatic toxicity	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.		
Persistence and degradability	No data is available on the degradability of this product.		
Bioaccumulation / accumulation			
Partition coefficient			
DIISOPROPANOLAMINE	-0.82		
Mobility in environmental media	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. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.

**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**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

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****Canadian regulations**

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**WHMIS status**

Controlled

**WHMIS classification**

D2B - Other Toxic Effects-TOXIC

**WHMIS labeling****International Inventories**

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)	Yes
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

**16. OTHER INFORMATION****Recommended use**

Use in accordance with supplier's recommendations.

**HMIS® ratings**

Health: 1  
Flammability: 0  
Physical hazard: 0

**NFPA ratings**

Health: 1  
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.

**Prepared by**

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**This data sheet contains changes from the previous version in section(s):**

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