SAFETY DATA SHEET



1. Identification

Product identifier SEMI-SYNTHETIC 8104 METALWORKING FLUID

Other means of identification

SDS number Not applicable

METALWORKING FLUID Recommended use

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Milacron Marketing Company LLC

> 3000 Disney Street Cincinnati, Ohio 45209

513-458-8100

Telephone (General

Information)

Emergency telephone

number

1-800-424-9300 (CHEMTREC)

Emergency telephone number (outside USA)

2. Hazard(s) identification

Physical hazards Corrosive to metals Category 1 **Health hazards** Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2

1-703-527-3887 (CHEMTREC)

Category 1 Sensitization, skin

Effects on or via lactation Reproductive toxicity

Environmental hazards Not classified. **OSHA** defined hazards Not classified.

Label elements



Signal word

May be corrosive to metals. Causes skin irritation. Causes serious eye irritation. May cause an **Hazard statement**

allergic skin reaction. May cause harm to breast-fed children.

Precautionary statement

Prevention Keep only in original container. Do not breathe mist or vapor. Avoid contact during

pregnancy/while nursing. Wash thoroughly after handling. Do not eat, drink or smoke when using

this product. Contaminated work clothing must not be allowed out of the workplace. Wear

protective gloves/protective clothing/eye protection/face protection.

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. IF IN EYES: Rinse Response

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. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. IF

INHALED: Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Take off contaminated clothing and

wash before reuse. Absorb spillage to prevent material damage.

Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Store away Storage

from incompatible materials. Store in accordance with local/regional/national/international

regulation.

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

Material name: SEMI-SYNTHETIC 8104 SDS US

1 / 10 Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%	
SEVERELY-HYDROTREATED NAPHTHENIC PETROLEUM		64742-52-5	10 - 30	
C14-C17 MEDIUM CHAIN CHLORINATED PARAFFIN		63449-39-8	3 - 7	
TRIETHANOLAMINE		102-71-6	3 - 7	
MONOISOPROPANOLAMINE		78-96-6	1 - 5	
HEXAHYDRO-1,3,5-TRIS (2-HYDROXYETHYL)-S- TRIAZINE		4719-04-4	0.1 - 1	
Other components below reportable levels	<u> </u>		40 - 70	

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

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.

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing Skin contact

and shoes. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing

before reuse.

Immediately flush eves with plenty of water for at least 15 minutes. Remove contact lenses, if Eve contact

present and easy to do. Continue rinsing. Get medical 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

you feel unwell.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis.

treatment needed

General information

Wash contaminated clothing before reuse. 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.

Unsuitable extinguishing

media

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

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 equipment/instructions

Specific methods

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.

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.

Material name: SEMI-SYNTHETIC 8104 SDS US 2 / 10

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. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean up in accordance with all applicable regulations. 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. Avoid discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment. Use appropriate containment to avoid environmental contamination.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. To maintain product quality, do not store in heat or direct sunlight. Store in a cool, dry place out of direct sunlight. Keep only in the original container. Store away from incompatible materials (see Section 10 of the SDS). Keep this material away from food, drink and animal feed. Do not allow material to freeze. If frozen, product may separate. Thaw completely at room temperature and stir thoroughly prior to use.

8. Exposure controls/personal protection

Occupational exposure limits

U.S. - OSHA

	Туре	Value
SEVERELY-HYDROTREAT ED NAPHTHENIC PETROLEUM (CAS 64742-52-5)	PEL	5 mg/m3
U.S NIOSH		
	Туре	Value
SEVERELY-HYDROTREAT ED NAPHTHENIC PETROLEUM (CAS 64742-52-5)	STEL	10 mg/m3
,	TWA	5 mg/m3
ACGIH		
	Туре	Value
SEVERELY-HYDROTREAT ED NAPHTHENIC PETROLEUM (CAS 64742-52-5) US. ACGIH Threshold Limit Values	TWA	5 mg/m3
	Туре	Value
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3

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. Eye wash fountain and emergency showers are recommended.

Individual protection measures, such as personal protective equipment

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

recommended.

Skin protection

Use protective gloves made of: Nitrile. Hand protection Other Wear suitable protective clothing and gloves.

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. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

CLEAR Appearance Physical state Liquid. **Form** Liquid. Color Not available. Odor **CHEMICAL**

9.8 Ha

< 32 °F (< 0 °C) Melting point/freezing point Initial boiling point and boiling > 212 °F (> 100 °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.

Not available.

(%)

Odor threshold

Flammability limit - upper

Not available.

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure Not available. Not available. Vapor density Relative density Not available.

100 % Water Miscible Solubility(ies)

Partition coefficient

(n-octanol/water)

Not available.

Auto-ignition temperature Not available. Not available. **Decomposition temperature Viscosity** Not available.

Other information

pH in aqueous solution 9.1 @ 5% Specific gravity 1.027 12 % **VOC ASTM D2369**

10. Stability and reactivity

Reactivity May be corrosive to metals.

Material is stable under normal conditions. Chemical stability

Possibility of hazardous No dangerous reaction known under conditions of normal use. Hazardous polymerization does not

occur. reactions

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

Incompatible materials Aluminum. Acids. Avoid contact with oxidizers or reducing agents. Do not add sodium nitrite or

other nitrosating agents which may form cancer causing nitrosamines.

Hazardous decomposition

products

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

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful. May cause irritation to the respiratory system.

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

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.

Dermatitis. Rash.

Information on toxicological effects

Acute toxicity May cause an allergic skin reaction. Expected to be a low hazard for usual industrial or

commercial handling by trained personnel.

Components Species Test Results

MONOISOPROPANOLAMINE (CAS 78-96-6)

Acute

Dermal

LD50 Rabbit 1576 mg/kg

Inhalation

LC0 Rat 1005 mg/m³, 3 hours

Oral

LD50 Rat 1715 mg/kg

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

Acute

Dermal

LD50 Rabbit > 5000 mg/kg

Inhalation

LC50 Rat 5.7 mg/l, 4 hours

Oral

LD50 Rat > 5000 mg/kg

TRIETHANOLAMINE (CAS 102-71-6)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg

Oral

LD50 Guinea pig 5300 mg/kg

Rat 8 g/kg

Skin corrosion/irritation Causes skin irritation. Prolonged skin contact may cause temporary irritation. Defatting, drying and

cracking of skin.

Serious eye damage/eye

irritation

Causes serious eye irritation. Direct contact with eyes may cause temporary 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.

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^{*} 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.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity May cause harm to breastfed babies.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

May be harmful if swallowed and enters airways.

Chronic effects May be harmful if absorbed through skin. Prolonged inhalation may be harmful.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

12. Ecological information

EcotoxicityContains a substance which causes risk of hazardous effects to the environment. Toxic to aquatic

life with long lasting effects.

Components		Species	Test Results
C14-C17 MEDIUM CH	HAIN CHLORINATE	D PARAFFIN (CAS 63449-39-8)	
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 0.1 mg/l, 96 hours
MONOISOPROPANO	LAMINE (CAS 78-9	96-6)	
Aquatic			
Fish	LC50	Goldfish (Carassius auratus)	210 mg/l, 96 hours
SEVERELY-HYDROT	REATED NAPHTH	ENIC PETROLEUM (CAS 64742-52-5)	
Aquatic			
Acute			
Fish	LC50	Fish	> 100 mg/l, 96 hours
TRIETHANOLAMINE	(CAS 102-71-6)		
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	565.2 - 658.3 mg/l, 48 hours

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

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

Bioaccumulative potential

Fish

Partition coefficient n-octanol / water (log Kow)

MONOISOPROPANOLAMINE -0.93 TRIETHANOLAMINE -1

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.

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

13. Disposal considerations

Disposal instructions Consult authorities before disposal. Do not contaminate ponds, waterways or ditches with

chemical or used container. 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).

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Contaminated packaging

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

emptied. Do not re-use empty containers.

14. Transport information

DOT

UN3267 **UN** number

Corrosive liquid, basic, organic, n.o.s. (TRIETHANOLAMINE, MONOISOPROPANOLAMINE), UN proper shipping name

MARINE POLLUTANT (C14-C17 MEDIUM CHAIN CHLORINATED PARAFFIN)

Transport hazard class(es)

Class 8 Subsidiary risk 8 Label(s) Ш Packing group **Environmental hazards**

> Marine pollutant Yes

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

Special provisions IB3, T7, TP1, TP28

Packaging exceptions 154 203 Packaging non bulk Packaging bulk 241

Supplemental Information: Exceptions found in 49 CFR 173.154 for CLASS 8, Packing Group III will not apply to this product since this product is corrosive to aluminum and also a Marine Pollutant.

IATA

UN3267 **UN** number

Corrosive liquid, basic, organic, n.o.s. (TRIISOPROPANOLAMINE, **UN proper shipping name**

MONOISOPROPANOLAMINE)

Transport hazard class(es)

8 Class Subsidiary risk Packing group Ш **Environmental hazards** Yes **ERG Code** 8L

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

Other information

Passenger and cargo

aircraft

Allowed.

Allowed. Cargo aircraft only

IMDG

UN3267 **UN** number

CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (TRIISOPROPANOLAMINE, **UN proper shipping name**

MONOISOPROPANOLAMINE), MARINE POLLUTANT

Transport hazard class(es)

Class 8 Subsidiary risk Ш Packing group **Environmental hazards**

> Marine pollutant Yes F-A, S-B

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

Not established. Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

Material name: SEMI-SYNTHETIC 8104 SDS US 7 / 10

DOT



IATA; IMDG



Marine pollutant



General information

DOT Regulated Marine Pollutant. IMDG Regulated Marine Pollutant.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. It may be reportable under the provisions of SARA Sections 311 and 312 if specific threshold criteria are met or exceeded.

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

HEXAHYDRO-1,3,5-TRIS (2-HYDROXYETHYL)-S-

1.0 % One-Time Export Notification only.

TRIAZINE (CAS 4719-04-4)

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

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)

Not regulated. Food and Drug

Administration (FDA)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. Massachusetts RTK - Substance List

MONOISOPROPANOLAMINE (CAS 78-96-6)

TRIETHANOLAMINE (CAS 102-71-6)

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

MONOISOPROPANOLAMINE (CAS 78-96-6)

TRIETHANOLAMINE (CAS 102-71-6)

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

MONOISOPROPANOLAMINE (CAS 78-96-6)

TRIETHANOLAMINE (CAS 102-71-6)

US. Rhode Island RTK

Not regulated.

California South Coast Air **Quality Management**

IN COMPLIANCE WITH CALIFORNIA SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) RULES, SALE OF THIS PRODUCT IS PROHIBITED IN THE SCAQMD (inclusive).

District (SCAQMD) Rule 1144 (VOC Emissions)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

NITRILOTRIACETIC ACID (CAS 139-13-9) Listed: January 1, 1988

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)	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			
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No			
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes			
*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

05-20-2015 Issue date

Version # 01

Further information Not available.

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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.

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