# CUTSOL TM/MC

#### 000003000674

Version 3.0 Revision Date 2017/02/09



**SECTION 1. IDENTIFICATION** 

Product name

: CUTSOL TM/MC

Product code

CTSOLP20, CTSOLDRM, CTSOL, CTSOLDCT

Manufacturer or supplier's details

Petro-Canada Lubricants Inc. 2310 Lakeshore Road West Mississauga ON L5J 1K2

Canada

Emergency telephone num-

ber

Petro-Canada Lubricants Inc.: +1 905-403-5770; CHEMTREC Transport Emergency: 1-800-424-9300;

Poison Control Centre: Consult local telephone directory for

emergency number(s).

Recommended use of the chemical and restrictions on use

Recommended use

: Cutsol is a biocide protected water soluble cutting oil used for

general machining and grinding operations. Cutsol is mixed

with water prior to use.

Prepared by

Product Safety: +1 905-804-4752

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **Emergency Overview**

Appearance	Low viscosity liquid	
Colour	Clear amber	9-19-11-11-11-11-11-11-11-11-11-11-11-11
Odour	Slight pungent odour	
Hazard Summary	Irritating to eyes.	

**GHS Classification** 

Eye irritation

: Category 2A

**GHS** label elements

Hazard pictograms

**(!)** 

Signal word

: Warning

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Hazard statements

: Causes serious eye irritation.

Precautionary statements

: Prevention:

Wash skin 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

If eye irritation persists: Get medical advice/ attention.

**Potential Health Effects** 

Primary Routes of Entry

: Eye contact Ingestion Inhalation Skin contact

Aggravated Medical Condi-

: None known.

tion

Other hazards None known.

IARC

No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

**ACGIH** 

No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcino-

gen by ACGIH.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

#### Hazardous components

Chemical name	CAS-No.	Concentration
Sodium petroleum sulfonates		5 - 10 %
Potassium resinate		1 - 5 %
Alkyl benzene sulfonates		1 - 5 %
Long-chain alkenyl alkanol amide		1 - 5 %
Alkoxylated long chain alkyl alcohol		1 - 5 %

Afton Chemical, Cutsol: HMIRC Registry Number: 9816 Claim granted: Date Filed: January 27, 2016.

#### **SECTION 4. FIRST AID MEASURES**

If inhaled

: Move to fresh air.

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Artificial respiration and/or oxygen may be necessary.

Seek medical advice.

In case of skin contact

: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing

and shoes.

Wash skin thoroughly with soap and water or use recognized

skin cleanser.

Wash clothing before reuse.

Seek medical advice.

In case of eye contact

: Remove contact lenses.

Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Obtain medical attention.

If swallowed

Rinse mouth with water.

DO NOT induce vomiting unless directed to do so by a physi-

cian or poison control center.

Never give anything by mouth to an unconscious person.

Seek medical advice.

Most important symptoms and effects, both acute and

delayed

: First aider needs to protect himself.

#### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media

: Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Unsuitable extinguishing

media

No information available.

Specific hazards during fire-

fighting

: Cool closed containers exposed to fire with water spray.

Hazardous combustion prod-

ucts

Carbon oxides (CO, CO2), water vapour, hydrocarbons, smoke and irritating vapours as products of incomplete com-

bustion.

Further information

Prevent fire extinguishing water from contaminating surface

water or the ground water system.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

tive equipment and emer-

gency procedures

Personal precautions, protec- : Use personal protective equipment.

Ensure adequate ventilation.

Evacuate personnel to safe areas. Material can create slippery conditions.

Environmental precautions

: If the product contaminates rivers and lakes or drains inform

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respective authorities.

Do not allow uncontrolled discharge of product into the envi-

ronment.

Methods and materials for containment and cleaning up : Prevent further leakage or spillage if safe to do so.

Remove all sources of ignition.

Soak up with inert absorbent material. Non-sparking tools should be used.

Ensure adequate ventilation.

Contact the proper local authorities.

#### SECTION 7. HANDLING AND STORAGE

Advice on safe handling

: For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

In case of insufficient ventilation, wear suitable respiratory

equipment.

Avoid contact with skin, eyes and clothing.

Do not ingest.

Keep away from heat and sources of ignition.

Keep container closed when not in use.

Conditions for safe storage

Store in original container.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Keep in a dry, cool and well-ventilated place.

Keep in properly labelled containers.

To maintain product quality, do not store in heat or direct sun-

light.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures

: No special ventilation requirements. Good general ventilation

should be sufficient to control worker exposure to airborne

contaminants.

#### Personal protective equipment

Respiratory protection

: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe

working limits of the selected respirator.

Filter type

: organic vapour filter

Hand protection

Material : neoprene, nitrile. Consult your PPE provider for breakthrough

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times and the specific glove that is best for you based on your use patterns. It should be realized that eventually any material regardless of their imperviousness, will get permeated by chemicals. Therefore, protective gloves should be regularly checked for wear and tear. At the first signs of hardening and cracks, they should be changed.

: Chemical-resistant, impervious gloves complying with an Remarks

approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is nec-

essary.

: Wear face-shield and protective suit for abnormal processing Eye protection

Skin and body protection : Choose body protection in relation to its type, to the concen-

tration and amount of dangerous substances, and to the spe-

cific work-place.

: Wash contaminated clothing before re-use. Protective measures

: Remove and wash contaminated clothing and gloves, includ-Hygiene measures

ing the inside, before re-use.

Wash face, hands and any exposed skin thoroughly after

handling.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: Low viscosity liquid

Colour

: Clear amber

Odour

: Slight pungent odour

Odour Threshold

: No data available

Hq

: No data available

Pour point

: No data available

Boiling point/boiling range

: No data available

Flash point

: 100 °C (212 °F) Method: closed cup

Fire Point

: > 150 °C (> 302 °F)

Auto-Ignition Temperature

: No data available

Evaporation rate

: No data available

Flammability

: Low fire hazard. This material must be heated before ignition

will occur.

Upper explosion limit

: No data available

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Lower explosion limit

: No data available

Vapour pressure

No data available

Relative vapour density

No data available

Density

: 0.932 kg/l (15 °C / 59 °F)

Solubility(ies)

Water solubility

: insoluble

Partition coefficient: n-

: No data available

octanol/water

Viscosity

Viscosity, kinematic

: 38.0 cSt (40 °C / 104 °F)

Explosive properties

: Do not pressurise, cut, weld, braze, solder, drill, grind or ex-

pose containers to heat or sources of ignition.

#### SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reac-

tions

: Hazardous polymerisation does not occur.

Stable under normal conditions.

Conditions to avoid

: No data available

Incompatible materials

: Reactive with oxidising agents. Do not store in containers

made from copper, aluminum or zinc.

Hazardous decomposition

products

: May release COx, water vapour, hydrocarbons, smoke and

irritating vapours when heated to decomposition.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Eye contact Ingestion Inhalation Skin contact

#### **Acute toxicity**

#### Product:

Acute oral toxicity

: Remarks: No data available

Acute inhalation toxicity

: Remarks: No data available

Acute dermal toxicity

: Remarks: No data available

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#### Skin corrosion/irritation

Product:

Remarks: No data available

Serious eye damage/eye irritation

Product:

Remarks: No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

#### SECTION 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Product:

Toxicity to fish

Remarks: No data available

Toxicity to daphnia and other :

aquatic invertebrates

Remarks: No data available

Toxicity to algae

Remarks: No data available

Toxicity to bacteria

: Remarks: No data available

#### Persistence and degradability

Product:

Biodegradability

: Remarks: No data available

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Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

#### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues

: The product should not be allowed to enter drains, water

courses or the soil.

Offer surplus and non-recyclable solutions to a licensed dis-

posal company.

Waste must be classified and labelled prior to recycling or

disposal.

Send to a licensed waste management company.

Dispose of as hazardous waste in compliance with local and

national regulations.

Dispose of product residue in accordance with the instructions

of the person responsible for waste disposal.

#### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

**National Regulations** 

TDG

Not regulated as a dangerous good

#### SECTION 15. REGULATORY INFORMATION

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

#### The components of this product are reported in the following inventories:

DSL

On the inventory, or in compliance with the inventory

**TSCA** 

All chemical substances in this product are either listed on the

TSCA Inventory or are in compliance with a TSCA Inventory

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exemption.

**IECSC** 

On the inventory, or in compliance with the inventory

#### SECTION 16. OTHER INFORMATION

For Copy of SDS

: Internet: lubricants.petro-canada.com/sds

Western Canada, telephone: 1-800-661-1199; fax: 1-800-378-

4518

Ontario & Central Canada, telephone: 1-800-268-5850; fax: 1-

800-201-6285

Quebec & Eastern Canada, telephone: 1-800-576-1686; fax:

1-800-201-6285

For Product Safety Information: 1 905-804-4752

Prepared by

: Product Safety: +1 905-804-4752

Revision Date

: 2017/02/09

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.



## Safety Data Sheet

SDS no.

CUTSOL

#### Section 1. Identification

GHS product identifier

Product use

: Petrochemical industry: Water-extendable metal removal fluid [to be diluted in water

prior to use]

#### In case of emergency - Chemical

+1-703-527-3887 (International)

+1-703-741-5979 (Spanish language)

+1-800-424-9300 (US & Canada)

#### Manufacturer / Supplier

Afton Chemical Corporation

500 Spring St.

Richmond, VA 23219

USA

7201 W. 65th Street

Bedford Park, IL 60638, USA

Tel: (708) 458-8450

Afton Chemical Corporation

Afton Chemical Canada

P.O. Box 130

Coranna, Canada N0N1G0

Tel: +1-804-788-5800

## Section 2. Hazards identification

OSHA/HCS status

: This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the substance or mixture : SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 1.2%

#### **GHS label elements**

Hazard pictograms



Signal word

: Warning

Hazard statements

: Causes serious eye irritation.

Precautionary statements

General

: Read label before use. Keep out of reach of children. If medical advice is needed,

have product container or label at hand.

Prevention

: Wear eye or face protection. Wash hands thoroughly after handling.

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

Storage

: Store in well-ventilated place. Store locked up.

Disposal

Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Additional hazards

: None known.

## Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of

: Not available.

identification

### Section 3. Composition/information on ingredients

Ingredient name	CAS number	Conc. (% w/w)	US GHS Classification
Mineral oil	Mixture	60 - 100	Not classified.
Sodium petroleum sulfonates	Proprietary	5 - 9.9	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
Potassium resinate	Proprietary	1 - 4.9	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
Alkyl benzene sulfonates	Proprietary	1 - 4.9	SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
Long-chain alkenyl alkanol amide	Proprietary	1 - 4.9	SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Alkoxylated long-chain alkyl alcohol	Proprietary	1 - 4.9	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
1H,3H,5H-Oxazolo[3,4-c]oxazole, 7a-ethyldihydro-	7747-35-5	0.5 - 0.99	ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1
Substituted alkynyl alkyl carbamate	Proprietary	0.1 - 0.5	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

Any concentration shown as a range is to protect confidentiality or is due to batch variation. Occupational exposure limits, if available, are listed in Section 8.

#### Section 4. First aid measures

Description of	necessary	first aid	measures

Eye contact : Immediatel

: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to

rinse for at least 10 minutes. Get medical attention.

Inhalation : If inhaled, remove to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be

arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing, give

artificial respiration. If breathing is difficult, administer oxygen.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation occurs. Wash clothing before reuse. Clean

shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and

keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

#### Section 4. First aid measures

Ingestion

: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Eye contact

: Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation

: No specific data.

Skin contact

: No specific data.

Ingestion

: No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments

: No specific treatment.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. It may

be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### Extinguishing media

Suitable extinguishing

: In case of fire, use water spray (fog), foam, dry chemical or CO2.

media

Unsuitable extinguishing

media

: Do not use water jet.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

: No specific data.

Special protective actions

for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### Section 6. Accidental release measures

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

#### Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating. drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

#### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
Mineral Oil	ACGIH (United States).  TWA: 5 mg/m³  OSHA (United States).  TWA: 5 mg/m³

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

#### Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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### Section 8. Exposure controls/personal protection

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

#### Appearance

Physical state

: Liquid.

Color

: Amber. : Mild.

Odor

Odor threshold

: Not available.

pH

: 9.8 [Conc. (% w/w): 5%]

Melting point

: <0°C (<32°F)

**Boiling point** 

Flash point

: >100°C (>212°F)

: Closed cup: >100°C (>212°F) [Minimum]

Evaporation rate Flammability (solid, gas) : Not available.

: Not available.

Lower and upper explosive

: Not available.

(flammable) limits

Vapor pressure

: Not available.

Vapor density

: Not available.

Relative density

: 0.92

Solubility

: Not available.

Partition coefficient: n-

: Not available.

octanol/water

Auto-ignition temperature

: >150°C (>302°F)

Decomposition temperature : Not available.

Viscosity

: 38 cSt at 40°C

## Section 10. Stability and reactivity

Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability

: The product is stable.

Possibility of hazardous

: Under normal conditions of storage and use, hazardous reactions will not occur.

reactions

: No specific data.

Incompatible materials

Conditions to avoid

: Strong oxidizing and reducing agents.

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous decomposition products

## Section 11. Toxicological information

#### Information on toxicological effects

#### **Acute toxicity**

Product / ingredient name	Result	Species	Dose	Exposure
Mineral oil	LC50 Inhalation Vapor	Rat	>5000 mg/m³	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Sodium petroleum sulfonates	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Potassium resinate	LD50 Dermal	Rat	>2000 mg/kg	_
	LD50 Oral	Rat.	>2000 mg/kg	-
Long-chain alkenyl alkanol	LD50 Dermal	Rabbit	>2000 mg/kg	_

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Section 11. Toxico	logical	inform	ation			
amide	T		2 2 2 2 2 2 2 2 2	1		<del></del>
Alkoxylated long-chain alkyl alcohol	LD50 Ora LD50 Dei			Rat Rabbit	>2000 mg/kg 2300 mg/kg	-
diconor	LD50 Der	mal		Rat	>2000 mg/kg	
	LD50 Ora			Rat	>5000 mg/kg	-
1H,3H,5H-Oxazolo[3,4-c] oxazole, 7a-ethyldihydro-	LC50 Inh	alation Vap	or	Rat	3.1 mg/l	4 hours
	LD50 Der			Rabbit	>2000 mg/kg	-
	LD50 Ora	The street business of	4 2 2	Rat	>3600 mg/kg	
Substituted alkynyl alkyl carbamate	LC50 Inh	alation Dust	s and mists	Rat	0.67 mg/l	4 hours
Carbaniale	LC50 Inh	alation Vapo	or	Rat	6.89 mg/l	4 hours
	LD50 Der	200		Rabbit	>2000 mg/kg	2
	LD50 Ora	ıl		Rat	300 mg/kg	-
Conclusion/Summary	: Not ava	ilable.		24		***
Irritation/Corrosion						
Conclusion/Summary						
Skin	: Not ava	ilable.				
Eyes	: Not ava	ilable.				
Respiratory	: Not avai	lable.				
Sensitization						
Conclusion/Summary						
Skin	: Not avai	lable.				
Respiratory	: Not avai	lable.			34	
Mutagenicity						
Conclusion/Summary	: Not avai	lable.				
Carcinogenicity						
Conclusion/Summary	: Not avai	lable.				
Classification						
Product / ingredient name	OSHA	IARC	NTP			
Not available.						
Reproductive toxicity		-	1		-	
Conclusion/Summary	: Not avai	lable				
Teratogenicity						
Conclusion/Summary	: Not avai	lable				
Specific target organ toxicity						
Name			0-	ategory	Route of	Target organs
Name			Ca	ategory	exposure	rarget organs
Substituted alkynyl alkyl carba	ımate		Ca	ategory 3	Not applicable.	Respiratory tract irritation
nformation on the likely outes of exposure	: Skin, Ey	es, Ingestio	n, and Inha	lation		
otential acute health effects						
Eye contact	: Causes	serious eye	irritation.			
Inhalation	: No know	n significan	t effects or	critical hazards	•	
233						

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

pain or irritation watering

redness

Inhalation : No specific data.

Skin contact : No specific data. Ingestion : No specific data.

### Section 11. Toxicological information

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary

: Not determined.

General

: No known significant effects or critical hazards.

Carcinogenicity

: No known significant effects or critical hazards.

Mutagenicity

: No known significant effects or critical hazards. : No known significant effects or critical hazards.

Teratogenicity Developmental effects

: No known significant effects or critical hazards.

Fertility effects

: No known significant effects or critical hazards.

### Section 12. Ecological information

#### **Toxicity**

#### Persistence and degradability

Test	Result		Dose		Inoculum		
OECD 301D	27 % - Not readily - 28 days		ECD 301D 27 % - Not readily - 28 da		-		-
Aquatic half-life		Photolysis	1	Biodeg	gradability		
-		-		Not rea	idily		
	OECD 301D	OECD 301D 27 % - N	OECD 301D 27 % - Not readily - 28 days	OECD 301D 27 % - Not readily - 28 days -	OECD 301D 27 % - Not readily - 28 days -  Aquatic half-life Photolysis Biodeg		

#### Bioaccumulative potential

Not available.

## Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-		-		-

Notice to reader

The above transport information is provided to assist in the proper classification of this product and may not be suitable for all shipping conditions.

### Section 15. Regulatory information

US regulations

SARÁ 313 toxic chemical notification and release

reporting (w/w%)

: No SARA 313 chemicals are present above the reporting threshold.

SARA 311/312 Hazardous Categorization : SARA 311/312 Hazards identification: Immediate (acute) health hazard, Delayed (chronic)

health hazard

RQ (Reportable quantity)

: CERCLA: Hazardous substances.: Ethylene glycol: 5000 lbs. (2270 kg);

State - California Prop. 65

This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the

statute: Ethylene glycol

Canadian regulations

**HMIRA Registry Number** 

: 9816

Claim granted.

: Date Filed: January 27, 2016

International Inventory Status

United States inventory (TSCA

: All components are listed or exempted.

8b)

: All components are listed or exempted.

Canada inventory Europe inventory

: All components are listed or exempted.

Japan inventory (ENCS)

: Not determined.

Australia inventory (AICS)

: All components are listed or exempted.

Korea inventory (KECI)

: All components are listed or exempted.

China inventory (IECSC)

: All components are listed or exempted.

Philippines inventory (PICCS)

: At least one component is not listed.

New Zealand Inventory of Chemicals (NZIoC)

: At least one component is not listed.

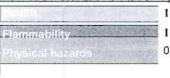
Chemicals (19210C)

Taiwan inventory (CSNN)

: Not determined.

#### Section 16. Other information

#### Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

#### History

Date of issue/Date of

: 2/23/2016.

revision

Prepared by

: EHS Department (Tel: +1 804 788 5800)

Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

 $\ensuremath{
abla}$  Indicates information that has changed from previously issued version.

#### Notice to reader

This information and these recommendations are offered in good faith and believed to be correct as of the date hereof. Information and recommendations are supplied upon the condition that the recipients will make their own decision as to safety and suitability for their purposes. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, are made with respect to the product or the information and recommendations. Afton makes no representation as to completeness or accuracy. In no event will Afton be responsible for damages of any nature whatsoever resulting from the use or reliance upon the information and recommendations.