

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Tyme™-1 Cold Parts Cleaner

Other means of identification

**Product Code** Item# 1750566

Recommended use Parts cleaning solvent for use in cold cleaner / dip tank

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

CRC Canada Co. Company name **Address** 83 Galaxy Blvd

Unit 35 - 37

Toronto, ON M9W 5X6

Canada

Telephone

**General Information** 416-847-7750

24-Hour Emergency

800-424-9300 (Canada)

(CHEMTREC) Website

www.crc-canada.ca

Support.CA@crcindustries.com E-mail

#### 2. Hazard identification

Physical hazards Not classified.

**Health hazards** Skin corrosion/irritation Category 1C

> Serious eye damage/eye irritation Category 1 Sensitization, skin Category 1B Carcinogenicity Category 1B

Specific target organ toxicity, single exposure Category 3 narcotic effects

**Environmental hazards** Hazardous to the aquatic environment, acute Category 2

hazard

Hazardous to the aquatic environment, Category 2

long-term hazard

Label elements



Signal word Danger

**Hazard statement** Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious

eye damage. May cause drowsiness or dizziness. May cause cancer. Toxic to aquatic life. Toxic

to aquatic life with long lasting effects.

**Precautionary statement** 

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Do not breathe mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Avoid

release to the environment.

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IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off Response

> immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. If skin irritation or rash occurs: Get medical advice/attention. IF exposed or

concerned: Get medical advice/attention. Collect spillage.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Storage

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

Other hazards None known.

Supplemental information When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal

corrosive gases such as hydrogen chloride and possibly phosgene.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name Common name and synonyms		CAS number	%	
tetrachloroethylene	perchloroethylene	127-18-4	45 - 70	
water		7732-18-5	15 - 40	
cyclohexanol		108-93-0	7 - 13	
tall oil		8002-26-4	1 - 5	
ethoxylated nonylphenol, bra	anched	68412-54-4	0.1 - 1	

The exact percentage (concentration) of composition has been withheld as a trade secret. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON Inhalation

CENTER or doctor/physician if you feel unwell.

Remove contaminated clothing immediately and wash skin with soap and water. Call a physician Skin contact

or poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If Ingestion

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important

symptoms/effects, acute and

delayed

May cause drowsiness and dizziness. Headache, Nausea, vomiting, Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation.

Symptoms may be delayed.

**General information** IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated

clothing before reuse.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). 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. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen chloride and possibly phosgene.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted. General fire hazards

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## 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 This product is miscible in water. Prevent product from entering drains.

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. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

# 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 breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in a dry, cool and well-ventilated place. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

#### Occupational exposure limits

110	ACCIL	Three	hold	Limit	Values
US.	ACGIR	inres	noia		values

Components	Туре	Value	
cyclohexanol (CAS 108-93-0)	TWA	50 ppm	
tetrachloroethylene (CAS 127-18-4)	STEL	100 ppm	
	TWA	25 ppm	

#### Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) Components

Components	туре	value
cyclohexanol (CAS 108-93-0)	TWA	205 mg/m3
		50 ppm
tetrachloroethylene (CAS 127-18-4)	STEL	678 mg/m3
		100 ppm
	TWA	170 mg/m3
		25 ppm

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

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Components	Туре	Value	
cyclohexanol (CAS 108-93-0)	TWA	50 ppm	
tetrachloroethylene (CAS 127-18-4)	STEL	100 ppm	
	TWA	25 ppm	

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

Components	Туре	Value
cyclohexanol (CAS 108-93-0)	TWA	50 ppm

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Canada. M	lanitoba OELs	(Reg. 217/2006,	The Workplace Safe	ty And Health Act)
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Components	Туре	Value
tetrachloroethylene (CAS 127-18-4)	STEL	100 ppm
	TWA	25 ppm
Canada. Ontario OELs. (Control o	of Exposure to Biological or Cl	nemical Agents)
Components	Туре	Value
cyclohexanol (CAS 108-93-0)	TWA	50 ppm
tetrachloroethylene (CAS 127-18-4)	STEL	100 ppm
	TWA	25 ppm
Canada. Quebec OELs. (Ministry	of Labor - Regulation respecti	ng occupational health and safety)
Components	Туре	Value
cyclohexanol (CAS 108-93-0)	TWA	206 mg/m3
		50 ppm
tetrachloroethylene (CAS 127-18-4)	STEL	685 mg/m3
		100 ppm

## **Biological limit values**

**ACGIH Biological Exposure Indices** 

Components	Value	Determinant	Specimen	Sampling Time
tetrachloroethylene (CAS 127-18-4)	0.5 mg/l	Tetrachloroethy lene	Blood	*
	3 ppm	Tetrachloroethy lene	End-exhaled air	*

<sup>\* -</sup> For sampling details, please see the source document.

## **Exposure guidelines**

Canada - Alberta OELs: Skin designation

cyclohexanol (CAS 108-93-0) Can be absorbed through the skin.

TWA

Canada - British Columbia OELs: Skin designation

cyclohexanol (CAS 108-93-0) Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

cyclohexanol (CAS 108-93-0) Can be absorbed through the skin.

Canada - Ontario OELs: Skin designation

cvclohexanol (CAS 108-93-0) Can be absorbed through the skin.

Canada - Quebec OELs: Skin designation

cyclohexanol (CAS 108-93-0) Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

cyclohexanol (CAS 108-93-0) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

Can be absorbed through the skin. cyclohexanol (CAS 108-93-0)

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 facilities and emergency shower must be available when handling this product.

170 mg/m3 25 ppm

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear protective gloves such as: Polyvinyl alcohol (PVA). Polytetrafluoroethylene (PTFE).

Viton/butyl.

Other Wear appropriate chemical resistant clothing.

Respiratory protection If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a

NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to

determine actual employee exposure levels.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. 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

**Appearance** 

Physical state Liquid.
Form Liquid.
Color Yellow.
Odor Solvent.
Odor threshold Not available.

**pH** 12.2

Melting point/freezing point -8.1 °F (-22.3 °C) estimated Initial boiling point and boiling 212 °F (100 °C) estimated

range

Flash point None. Evaporation rate Slow.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

1.3 % estimated

(%)

Flammability limit - upper

r 13.1 % estimated

(%)

17.1 hPa estimated

Vapor density > 3 (air = 1)

Relative density 1.24

Solubility(ies)

Vapor pressure

Solubility (water) Emulsifiable.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 572 °F (300 °C) estimated

**Decomposition temperature**Not available. **Viscosity**Not available.

Other information

Percent volatile 95.5 % estimated

## 10. Stability and reactivity

**Reactivity** Reacts violently with strong acids. This product may react with oxidizing agents.

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. When exposed to extreme heat or hot surfaces, vapors may decompose

to harmful or fatal corrosive gases such as hydrogen chloride and possibly phosgene. Contact with

incompatible materials. Do not mix with other chemicals.

**Incompatible materials** Acids. Strong oxidizing agents. Oxidizing agents.

Hazardous decomposition Chlorine. Hydrogen chloride. Phosgene. Carbon oxides. Nitrogen oxides (NOx).

products

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## 11. Toxicological information

## Information on likely routes of exposure

Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting. May cause irritation to the

respiratory system. Prolonged inhalation may be harmful.

Skin contact Causes severe skin burns. May cause an allergic skin reaction.

Causes serious eye damage. Eye contact Causes digestive tract burns. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics May cause drowsiness and dizziness. Headache. Nausea, vomiting. Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

#### Information on toxicological effects

Acute toxicity Not known.

Components **Species Test Results** 

ethoxylated nonylphenol, branched (CAS 68412-54-4)

Acute

Dermal

LD50 Rabbit 4400 mg/kg

2830 mg/kg

Oral

LD50 Rat 3000 mg/kg

tall oil (CAS 8002-26-4)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg

Oral

LD50 Rat > 2000 mg/kg

Skin corrosion/irritation Causes severe skin burns and eye damage.

120.0000 **Exposure minutes** 

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

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

mutagenic or genotoxic.

Carcinogenicity May cause cancer.

**ACGIH Carcinogens** 

tetrachloroethylene (CAS 127-18-4) A3 Confirmed animal carcinogen with unknown relevance to

humans.

Canada - Manitoba OELs: carcinogenicity

tetrachloroethylene (CAS 127-18-4) Confirmed animal carcinogen with unknown relevance to humans.

Canada - Quebec OELs: Carcinogen category

tetrachloroethylene (CAS 127-18-4) Detected carcinogenic effect in animals.

IARC Monographs. Overall Evaluation of Carcinogenicity

tetrachloroethylene (CAS 127-18-4) 2A Probably carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

tetrachloroethylene (CAS 127-18-4) Reasonably Anticipated to be a Human Carcinogen.

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

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Not classified. Specific target organ toxicity -

repeated exposure

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SDS CANADA

Not an aspiration hazard. **Aspiration hazard** 

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

# 12. Ecological information

Toxic to aquatic life with long lasting effects. **Ecotoxicity** 

Product		Species	Test Results
Tyme™-1 Cold Parts	Cleaner		
Aquatic			
Crustacea	EC50	Daphnia	12.7553 mg/l, 48 hours estimated
Acute			
Fish	LC50	Fish	36.0314 mg/l, 96 hours estimated
Components		Species	Test Results

cyclohexanol (CAS 108-93-0)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 704 mg/l, 96 hours

ethoxylated nonylphenol, branched (CAS 68412-54-4)

Aquatic

Acute

Fish LC50 Bluegill (Lepomis macrochirus) > 10 mg/l, 96 hours

tall oil (CAS 8002-26-4)

**Aquatic** 

Acute

Crustacea EC50 Daphnia 12.2 mg/l, 48 hours Fish LC50 Fathead minnow (Pimephales promelas) > 20 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

cyclohexanol 1.23 tall oil 4.7 tetrachloroethylene 3.4

Mobility in soil No data available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow **Disposal instructions** 

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Local disposal regulations

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** 

**UN** number UN2922

**UN proper shipping name** 

Transport hazard class(es)

CORROSIVE LIQUID, TOXIC, N.O.S. (potassium hydroxide, morpholine), Limited Quantity

Class 8 Subsidiary risk 6.1 Ш Packing group

**Environmental hazards** Yes, but exempt from the regulations.

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

Special provisions 16

Material name: Tyme™-1 Cold Parts Cleaner SDS CANADA

#### **IATA**

UN2922 **UN** number

**UN** proper shipping name Corrosive liquid, toxic, n.o.s. (potassium hydroxide, morpholine)

Transport hazard class(es)

Class 8 Subsidiary risk 6.1 Ш Packing group **ERG Code** 8P

Other information

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

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

**IMDG** 

UN2922 **UN** number

**UN** proper shipping name

Transport hazard class(es)

CORROSIVE LIQUID, TOXIC, N.O.S. (potassium hydroxide, morpholine), Limited Quantity

Class 8 Subsidiary risk 6.1 Packing group Ш

**Environmental hazards** 

Yes, but exempt from the regulations. Marine pollutant

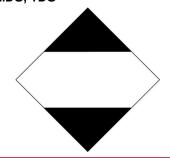
**EmS** 

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

#### **IATA**



# IMDG; TDG



# 15. Regulatory information

Canadian regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS

contains all the information required by the HPR.

Canada. Excluded VOCs. Guidelines for Volatile Organic Compounds in Consumer Products. CEPA 1999. Environment Canada, as amended

tetrachloroethylene (CAS 127-18-4)

**Controlled Drugs and Substances Act** 

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

**Greenhouse Gases** 

Not listed.

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# Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)

**Inventory name** 

tetrachloroethylene (CAS 127-18-4)

#### **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.

Country(s) or region

#### **International Inventories**

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
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)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Taiwan Chemical Substance Inventory (TCSI)

Toxic Substances Control Act (TSCA) Inventory

#### 16. Other information

Taiwan

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United States & Puerto Rico

CRC # 609J/1002648 **Further information** 

Disclaimer The information contained in this document applies to this specific material as supplied. It may not

> be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety

professional, or CRC Canada Co..

**Revision information** Hazard identification: Hazard statement

Hazard identification: Response

Transport Information: Material Transportation Information

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On inventory (yes/no)\*

Yes

Yes