

Safety Data Sheet

according to Hazardous Products Regulations (HPR; SOR/2015-17)

Trade name : SYN291CO
Revision date : 08.11.2024
Print date : 08.11.2024

Version (Revision) : 2.0.1 (1.0.1)

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

SYN291CO

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Metal working fluids
Lubrication at high energy conditions in metal working operations

Uses advised against

No information available.

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/downstream user/distributor)

CNCmarket.ca Inc.

Street : 2360 Portland Street SE

Postal code/City : Calgary, AB, T2G5S2

Telephone : +1 825 454 66 97

E-mail address : info@CNCmarket.ca

1.4 Emergency telephone number

Chemtrec: **1-800-424-9300** (24h/7d)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to HPR (SOR/2015-17)

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

2.2 Label elements

Labelling according to HPR (SOR/2015-17)

Hazard pictograms



Exclamation mark (GHS07)

Signal word

Warning

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing.

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2.3 Other hazards

Adverse environmental effects

Contains no substance(s) known to have endocrine disrupting properties.
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

1-phenoxypropan-2-ol ; CAS No. : 770-35-4
Weight fraction : ≥ 5 - < 10 %
Classification: Eye Irrit. 2 ; H319
1H-BENZOTRIAZOLE (1,2,3) ; CAS No. : 95-14-7
Weight fraction : ≥ 5 - < 10 %
Classification : Acute Tox. 4 ; H302 Eye Irrit. 2 ; H319 Aquatic Chronic 2 ; H411
POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3
Weight fraction : ≥ 1 - < 2 %
Classification: Met. Corr. 1 ; H290 Skin Corr. 1A ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302

Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. If unconscious but breathing normally, place in recovery position and seek medical advice.

Following inhalation

Remove victim out of the danger area. Remove casualty to fresh air and keep warm and at rest. Where appropriate artificial ventilation. In case of respiratory tract irritation, consult a physician.

In case of skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

Following ingestion

Call a physician immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person or a person with cramps.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Suitable extinguishing media

Foam, Extinguishing powder, Carbon dioxide (CO₂), Water spray jet, Water mist

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Unsuitable extinguishing media

Strong water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire may be liberated: Carbon dioxide (CO₂), Carbon monoxide, Nitrogen oxides (NO_x), Smoke and other incomplete combustion products.

5.3 Advice for firefighters

Special protective equipment for firefighters

Wear self-contained breathing apparatus.

5.4 Additional information

Do not inhale explosion and combustion gases. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Remove persons to safety. Avoid contact with skin, eyes and clothes. Provide adequate ventilation. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Special danger of slipping by leaking/spilling product.

6.2 Environmental precautions

Cover drains. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

For containment

Cover drains. Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control. Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up

Clear spills immediately. Wipe up with absorbent material (eg. cloth, fleece). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically, placing in appropriate containers for disposal. Ventilate affected area. Clean contaminated articles and floor according to the environmental legislation.

6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Wear personal protection equipment (refer to section 8). Use only in well-ventilated areas. Handle and open container with care. Always close containers tightly after the removal of product. Avoid contact with skin, eyes and clothes. Do not breathe gas/fumes/vapour/spray.

Protective measures

Measures to prevent fire

Usual measures for fire prevention.

Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Shafts and sewers must be protected from entry of the product.

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-

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impregnated cleaning rags into your trouser pockets. Use protective skin cream before handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Packaging materials

Only use containers specifically approved for the substance/product.

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Protect containers against damage. Floors should be impervious, resistant to liquids and easy to clean.

Hints on joint storage

Keep away from: Oxidizing agent

Do not store together with

Food and feedingstuffs

Further information on storage conditions

Recommended storage temperature : 5 - 40°C / 40 - 105°F.

Protect against : Heat. UV-radiation/sunlight Frost

Storage stability : Product may be stored for up to 12 months under described conditions.

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3	British Columbia Provincial (Canada). STEL: 2 mg/m ³ , Ceiling limit value (2017) Ontario Provincial (Canada). STEL: 2 mg/m ³ , Ceiling limit value (6/2015) Québec Provincial (Canada). STEV: 2 mg/m ³ , Ceiling limit value
Glycerin Mist (Total Dust) ; CAS No. : 56-81-5	British Columbia Provincial (Canada). TWA: 10 mg/m ³ , 8 hours (2017) Ontario Provincial (Canada). TWA: 10 mg/m ³ , 8 hours (6/2015) Québec Provincial (Canada). TWAEV: 10 mg/m ³ , 8 hours
Triethanolamine; CAS No. : 102-71-6	British Columbia Provincial (Canada). TWA: 5 mg/m ³ 8 hours (2017) Ontario Provincial (Canada). TWA: 3.1 mg/m ³ (0.5 ppm) 8 hours (6/2015) Québec Provincial (Canada). TWAEV: 5 mg/m ³ 8 hours (1/2000)

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

8.2 Exposure controls

Appropriate engineering controls

Use only in well-ventilated areas. If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Technical measures and the application of suitable work processes have priority over personal protection equipment.

Personal protection equipment

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling

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practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Eye/face protection

Eye glasses with side protection EN 166

Skin protection

Hand protection

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Tested protective gloves must be worn: DIN EN 374 Do not wear gloves near rotary machines and tools.

Suitable material :

Wearing time with permanent contact:

Material: NBR (Nitrile rubber), CR (polychloroprene, chloroprene rubber),

Thickness of the glove material: 0,70 mm

Breakthrough time (maximum wearing time): > 480 min

Wearing time with occasional contact (splashes):

Material: NBR (Nitrile rubber), CR (polychloroprene, chloroprene rubber),

Thickness of the glove material: 0,40 mm

Breakthrough time (maximum wearing time): > 30 min

Breakthrough time (maximum wearing time): : For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Check leak tightness/impermeability prior to use.

Body protection

If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.

Respiratory protection

Usually no personal respiratory protection necessary. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Respiratory protection necessary at: exceeding exposure limit values, insufficient ventilation, aerosol or mist formation.

General information

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Wash contaminated clothing prior to re-use. Apply skin care products after work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Liquid

Colour : yellow

Odour : Lemon

Safety characteristics

Melting point/freezing point : No data available

Initial boiling point and boiling range : (1013 hPa) > 100 °C

Flammability: flammable

Lower explosion limit : No data available

Upper explosion limit : No data available

Flash point : > 100 °C DIN EN ISO 2592

Auto-ignition temperature : No data available

Decomposition temperature : not determined

pH : (20 °C / 5 Weight-%) 8,8 DIN 51369

Kinematic viscosity : (20 °C) approx. 17 mm²/s DIN EN ISO 3104

Water solubility : (20 °C) miscible

log P O/W : not applicable

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Vapour pressure :	(20 °C)	No data available	
Density :	(15 °C)	1,16	g/cm ³
Relative vapour density :	(20 °C)	DIN EN ISO 12185	

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

Exothermic reaction with: Acid

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Oxidising agent, strong.
Acid

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on hazard classes

Toxicological data are not available. The statement is derived from the properties of the single components.

Acute toxicity

Based on available data, the classification criteria are not met.

Acute oral toxicity

Parameter :	LD50 (1-phenoxypropan-2-ol ; CAS No. : 770-35-4)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Parameter :	LD50 (POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3)
Exposure route :	Oral
Species :	Rat
Effective dose :	273 mg/kg

Acute dermal toxicity

Parameter :	LD50 (1-phenoxypropan-2-ol ; CAS No. : 770-35-4)
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 2000 mg/kg

Acute inhalation toxicity

Parameter :	LC50 (1-phenoxypropan-2-ol ; CAS No. : 770-35-4)
Exposure route :	Inhalation (dust/mist)
Species :	Rat
Effective dose :	> 5,4 mg/l

Corrosion

Skin corrosion/irritation

Parameter :	Skin corrosion/irritation (1-phenoxypropan-2-ol ; CAS No. : 770-35-4)
Species :	Rabbit
Result :	Slightly irritant but not relevant for classification

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Parameter : Skin corrosion/irritation (POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3)
Species : Rabbit
Result : heavy corrosive
Irritating to skin.

Serious eye damage/eye irritation

Parameter : Serious eye damage/eye irritation (1-phenoxypropan-2-ol ; CAS No. : 770-35-4)
Species : Rabbit
Result : irritating
Parameter : Serious eye damage/eye irritation (POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3)
Species : Rabbit
Result : heavy corrosive
Irritating to eyes.

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

Skin sensitisation

Parameter : Skin sensitisation (1-phenoxypropan-2-ol ; CAS No. : 770-35-4)
Species : Guinea pig
Result : Not sensitising.
Parameter : Skin sensitisation (POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3)
Species : Guinea pig
Result : negativ

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

STOT SE 1 and 2

Based on available data, the classification criteria are not met.

STOT-repeated exposure

STOT RE 1 and 2

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met. For viscosity data, see section 9.

11.2 Information on other hazards

No information available.

SECTION 12: Ecological information

12.1 Toxicity

For the product ecotoxicological data are not available. The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).

Aquatic toxicity

Harmful to aquatic life.

Acute (short-term) fish toxicity

Parameter : LC50 (1-phenoxypropan-2-ol ; CAS No. : 770-35-4)
Species : Pimephales promelas (fathead minnow)
Effective dose : > 100 mg/l
Method : OECD 203
Parameter : LC50 (POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3)

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Species : Gambusia affinis (Mosquito fish)
Effective dose : 80 mg/l
Exposure time : 96 h

Acute (short-term) toxicity to crustacea

Parameter : EC50 (1-phenoxypropan-2-ol ; CAS No. : 770-35-4)
Species : Daphnia magna (Big water flea)
Effective dose : > 370 mg/l
Method : OECD 202

Acute (short-term) toxicity to algae and cyanobacteria

Parameter : EC50 (1-phenoxypropan-2-ol ; CAS No. : 770-35-4)
Species : Desmodesmus subspicatus
Effective dose : > 100 mg/l

12.2 Persistence and degradability

Biodegradation

Part of the components is biodegradable.

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

12.8 Additional ecotoxicological information

Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Consult the appropriate local waste disposal expert about waste disposal. Dispose of waste according to applicable legislation.

Non-contaminated packages may be recycled.

Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Do not pressurise, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition.

SECTION 14: Transport information

14.1 UN number or ID number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

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14.6 Special precautions for user

None

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations Canada

NFPA Hazard ID: Health: 2; Flammability: 1; Reactivity: 1

HMIS Hazard ID: Health: 2; Flammability: 1; Reactivity: 1

CEPA: All components of this product are either on the Domestic Substance List (DSL) or are exempt.

This material is considered to be hazardous according to regulatory guidelines.

This product has been classified in accordance with hazard criteria of the Hazardous Products Regulations (HPR) SOR/2015-17 and the SDS contains all the information required by the HPR SOR/2015-17.

15.2 Chemical Safety Assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

02. Labelling

16.2 Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

GHS: Globally Harmonized System on the Classification and Labelling of Chemicals

CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures,

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

EC50: Effective concentration, 50 percent

DNEL: Derived No Effect Level

PNEC: Predicted No Effect Concentration

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

16.3 Key literature references and sources for data

Sources of information used in preparing this SDS included one or more of the following: Product Dossiers and SDS from suppliers, complemented by public sources, as appropriate (GESTIS, the EU IUCLID Data Base, U.S. NTP publications, e.g.).

16.4 Classification for mixtures and used evaluation method

No information available.

16.5 Relevant H- and EUH-phrases (Number and full text)

H290	May be corrosive to metals.
H302	Harmful if swallowed.

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H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

16.6 Training advice

Provide adequate information, instruction and training for operators.

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
