

Safety Data Sheet

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

Trade name : SYN311
Revision date : 19.09.2023
Print date : 19.09.2023

Version (Revision) : 1.0.0

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

1.1 Product identifier

SYN311

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)

2389305 Alberta ltd (www.CNCmarket.ca)

Street : 1144 Legacy cir SE

Postal code/City : Calgary, AB, T2X4E5

Telephone : 8257356698

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 Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

2.2 Label elements

Labelling according to HPR (SOR/2015-17)

Hazard pictograms



Exclamation mark (GHS07)

Signal word

Warning

Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P302+P352 IF ON SKIN: Wash with plenty of water/....
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents and container in accordance with all local and national regulations.

2.3 Other hazards

Adverse environmental effects

Safety Data Sheet

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

Trade name : SYN311
Revision date : 19.09.2023
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This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT ; CAS No. : 3811-73-2

Weight fraction : $\geq 0,1 - < 0,25$ %

Classification: Acute Tox. 3 ; H311 Acute Tox. 3 ; H331 STOT RE 1 ; H372 (nervous system) Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Acute 1 ; H400 Aquatic Chronic 2 ; H411 EUH070

Further ingredients

TRIETHANOLAMIN ; CAS No. : 102-71-6

Weight fraction : 1 - 5 %

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

Remove victim out of the danger area. When in doubt or if symptoms are observed, get medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. Where appropriate artificial ventilation.

In case of skin contact

Change contaminated, saturated clothing. 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. In case of eye irritation consult an ophthalmologist.

Following ingestion

Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person or a person with cramps. Where appropriate artificial ventilation. Do NOT induce vomiting. Seek medical advice immediately (poison centre).

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

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

Suitable extinguishing media

Foam, Extinguishing powder, Carbon dioxide (CO₂), Sand, Water mist,

Unsuitable extinguishing media

Strong water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Safety Data Sheet

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Trade name : SYN311
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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 a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information

Do not inhale explosion and combustion gases. Remove persons to safety. Move undamaged containers from immediate hazard area if it can be done safely. 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. Avoid contact with skin, eyes and clothes. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

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

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. 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.

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-impregnated cleaning rags into your trouser pockets.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Only use containers specifically approved for the substance/product. Protect containers against damage.

Hints on joint storage

Safety Data Sheet

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

Trade name : SYN311
Revision date : 19.09.2023
Print date : 19.09.2023

Version (Revision) : 1.0.0

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 : Frost Heat. UV-radiation/sunlight

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

Triethanolamine; CAS No. : 102-71-6	Alberta Provincial (Canada). OEL: 5 mg/m ³ 8 hours British Columbia Provincial (Canada). TWA: 5 mg/m ³ 8 hours Ontario Provincial (Canada). TWA: 3.1 mg/m ³ 8 hours TWA: 0.5 ppm 8 hours Québec Provincial (Canada). TWAEV: 5 mg/m ³ 8 hours Saskatchewan Provincial (Canada). STEL: 10 mg/m ³ 15 minutes TWA: 5 mg/m ³ 8 hours
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NOTE: Limits/standards shown for guidance only. Follow applicable regulations

8.2 Exposure controls

Appropriate engineering controls

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 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

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

Safety Data Sheet

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

Trade name : SYN311
Revision date : 19.09.2023
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Version (Revision) : 1.0.0

Unsuitable material : PVA (Polyvinyl alcohol),

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.

Body protection

Body protection: not required. If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.

Respiratory protection

Usually no personal respirative 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.

Suitable respiratory protection apparatus

Combination filtering device

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

Physical state : Liquid

Colour : colourless

Odour : characteristic

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-%)		9,2	DIN 51369
Cinematic viscosity :	(20 °C)	approx.	30 mm ² /s	DIN EN ISO 3104
Water solubility :	(20 °C)		miscible	
log P O/W :			not applicable	
Vapour pressure :	(20 °C)		No data available	
Density :	(15 °C)		1,134 g/cm ³	DIN EN ISO 12185
Relative vapour density :	(20 °C)		No data available	

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

Exothermic reaction with: Acid

Safety Data Sheet

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

Trade name : SYN311
Revision date : 19.09.2023
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10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Oxidising agent, strong.

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.

Corrosion

Skin corrosion/irritation

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

Serious eye damage/eye irritation

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

Respiratory or skin sensitisation

May cause sensitization by skin contact.

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.

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

Harmless to aquatic organisms.

12.2 Persistence and degradability

Some of the components are poorly biodegradable.

Abiotic degradation

Poorly eliminated from water.

Safety Data Sheet

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Trade name : SYN311
Revision date : 19.09.2023
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Version (Revision) : 1.0.0

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.

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.

Safety Data Sheet

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Trade name : SYN311
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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

none

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)

H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH070	Toxic by eye contact.

16.6 Training advice

Provide adequate information, instruction and training for operators.

16.7 Additional information

None

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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.
