Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

Trade name :	FORM121		
Revision date :	08.11.2024	**Version (Revision) :**	3.0.1 (2.0.1)
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SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier
FORM121

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 Regulation (EC) No 1272/2008 [CLP]
Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

2.2 Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms

Exclamation mark (GHS07)

Signal word
Warning

Hazard statements

H319	Causes serious eye irritation.

Precautionary statements

P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P337+P313	If eye irritation persists: Get medical advice/attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

Description

Mixture of substances listed below with nonhazardous additions.

Hazardous ingredients

Castor oil, sulfated, sodium salt ; REACH No. : 01-2119943732-36 ; EC No. : 269-123-7; CAS No. : 68187-76-8

Weight fraction : ≥ 15 - < 20 %

Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319 Aquatic Chronic 3 ; H412

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.

Following inhalation

Remove casualty to fresh air and keep warm and at rest.

In case of skin contact

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

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Following ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

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

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

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 (NOx), 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

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. Ventilate affected area.

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. 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

Environmental precautions

Do not allow to enter into surface water or drains.

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

Keep away from: Oxidizing agent

Storage class (TRGS 510) : 10

Do not store together with

Food and feedingstuffs

Further information on storage conditions

Recommended storage temperature : 20 °C

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

2,2`,2``-NITRILOTRIETHANOL ; CAS No. : 102-71-6

Limit value type (country of origin) :	AGW (D)
Limit value :	5 mg/m³
Version :	
Limit value type (country of origin) :	TRGS 900 (D)
Parameter :	E: inhalable fraction
Limit value :	1 mg/m³
Peak limitation :	1(I)
Remark :	Y
Version :	23.06.2022

DNEL-/PNEC-values

DNEL/DMEL

2,2`,2``-NITRILOTRIETHANOL ; CAS No. : 102-71-6

Limit value type :	DNEL worker (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	6,3 mg/kg bw/d
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	5 mg/m³

PNEC

2,2`,2``-NITRILOTRIETHANOL ; CAS No. : 102-71-6

Limit value type :	PNEC (Aquatic, freshwater)
Limit value :	0,32 mg/l
Limit value type :	PNEC (Aquatic, marine water)
Limit value :	0,032 mg/l
Limit value type :	PNEC (Sediment, freshwater)
Limit value :	1,7 mg/kg
Limit value type :	PNEC (Sediment, marine water)
Limit value :	0,17 mg/kg
Limit value type :	PNEC (Soil)
Limit value :	0,151 mg/kg

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

If contact is likely : Eye glasses with side protection EN 166

Skin protection

Hand protection

If contact is likely : Protective gloves DIN EN 374

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.

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):
NBR (Nitrile rubber), CR (polychloroprene, chloroprene rubber),
Thickness of the glove material: 0,40 mm
Breakthrough time (maximum wearing time): > 30 min

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. 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 : yellow

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 :			not determined		
Flash point :		>	100	°C	DIN EN ISO 2592
Auto-ignition temperature :			No data available		
Decomposition temperature :			not determined		
pH :	(20 °C / 5 Weight-%)		8,1		DIN 51369
Kinematic viscosity :	(40 °C)	approx.	114	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)		1,09	g/cm^3	DIN EN ISO 12185
Relative vapour density :	(20 °C)		No data available		
Maximum VOC content (Switzerland) :			0	Weight-%	

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 stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions
No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid
No information available.

10.5 Incompatible materials
Oxidising agent, strong.

10.6 Hazardous decomposition products
Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
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 (Castor oil, sulfated, sodium salt ; CAS No. : 68187-76-8)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 15600 mg/kg

Corrosion
Skin corrosion/irritation

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

Serious eye damage/eye irritation

Irritating to eyes.

Respiratory or skin sensitisation
Based on available data, the classification criteria are not met.

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

Harmless to aquatic organisms.

12.2 Persistence and degradability

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

Directive 2008/98/EC (Waste Framework Directive)

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

Before intended use

Waste codes/waste designations according to EWC/AVV

12 01 10* (Synthetic machining oils)

Remark

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

Additional information

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
EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. : 3, 75

National regulations

Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 5 %

Water hazard class

Classification according to AwSV - Class : 1 (Slightly hazardous to water)

Additional information

Berufsgenossenschaftliche Regeln (DGUV-Regeln)

The product corresponds with TRGS 611.

15.2 Chemical Safety Assessment
No information available.

SECTION 16: Other information

16.1 Indication of changes
02. Classification of the substance or mixture · 02. Label elements · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 03. Hazardous ingredients · 07. Hints on joint storage - Storage class · 08. Occupational exposure limit values · 14. Transport hazard class(es) - Land transport (ADR/RID) · 14. Transport hazard class(es) - Sea transport (IMDG) · 14. Transport hazard class(es) - Air transport (ICAO-TI / IATA-DGR) · 15. Restrictions on use · 15. Technische Anleitung zur Reinhaltung der Luft (TA-Luft) · 15. Water hazard class

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 according to regulation (EC) No 1272/2008 [CLP]

No information available.

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

H319	Causes serious eye irritation.
H412	Harmful 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.