

KRONES celerol LU 7608 (Lubricant system)

Safety Data Sheet

According to Hazardous Substances and New Organisms Act 1996 & Hazardous Substances (Safety Data Sheets) Notice 2017

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Version: 2.0

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture
Trade name : KRONES celerol LU 7608 (Lubricant system)

1.2 Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Used as lubrication system
Restrictions on use : No information available

1.4. Supplier's details

Supplier

KIC KRONES Internationale Cooperationsgesellschaft mbH
Böhmerwaldstraße 5
93073 Neutraubling
T +49-9401-70-3020
F +49-9401-70-3696
kic@kic-krones.com

1.5. Emergency phone number

Emergency number : +64 9 929 1483 (NCEC, National Chemical Emergency Service)
0800 446 881 (toll-free number, access from New Zealand only)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Not classified

Adverse physicochemical, human health and environmental effects : No information available

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS NZ) : None
Signal word (GHS NZ) : None
Hazard statements (GHS NZ) : None
Precautionary statements (GHS NZ) : None

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Not applicable

Article

| Name | Product identifier | % |
|-------------------------------------|----------------------|--------------------|
| Manganese oxide (MnO ₂) | (CAS-No.) 1313-13-9 | >= 30.00 - < 50.00 |
| Magnesium perchlorate | (CAS-No.) 10034-81-8 | >= 10.00 - < 25.00 |
| Sodium azide | (CAS-No.) 26628-22-8 | >= 10.00 - < 25.00 |
| Propylene carbonate | (CAS-No.) 108-32-7 | >= 5.00 - < 10.00 |
| Ethylene glycol dimethyl ether | (CAS-No.) 110-71-4 | >= 5.00 - < 10.00 |

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| | | |
|--|----------------------|--------|
| Lithium | (CAS-No.) 7439-93-2 | < 5.00 |
| Nickel(II) sulfate hexahydrate (1:1:6) | (CAS-No.) 10101-97-0 | < 0.50 |

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : Take off immediately all contaminated clothing and wash it before reuse. In case of doubt or persistent symptoms, consult always a physician. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Do not apply mouth-to-mouth resuscitation. Immediately call a POISON CENTER/doctor. |
| First-aid measures after skin contact | : Wash immediately with plenty of soap and water. Immediately call a POISON CENTER/doctor. |
| First-aid measures after eye contact | : Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. |
| First-aid measures after ingestion | : Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER/doctor. |

4.2. Most important symptoms/effects, acute and delayed

| | |
|---------------------------------|-----------------------------|
| Most Important Symptoms/Effects | : No information available. |
|---------------------------------|-----------------------------|

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

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Carbon dioxide, water spray, extinguishing powder, foam. |
| Unsuitable extinguishing media | : High volume water jet. |

5.2. Specific hazards arising from the chemical

| | |
|-------------|---|
| Fire hazard | : Thermal decomposition generates toxic vapours: carbon oxides, nitrogen oxides, chlorides, metal oxide |
|-------------|---|

5.3. Special protective actions for fire-fighters

| | |
|--------------------------------|--|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|--------------------------------|--|

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

| | |
|----------------------|--|
| Protective equipment | : Wear personal protective equipment. |
| Emergency procedures | : Ventilate spillage area. Remove person to uncontaminated area. Remove all sources of ignition. Spilled material may present a slipping hazard. |

6.1.2. For emergency responders

| | |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|---|

6.2. Environmental precautions

Avoid release to the environment. Do not discharge into drains or rivers. Advise local authorities if considered necessary.

6.3. Methods and materials for containment and cleaning up

| | |
|-------------------------|---|
| For containment | : Collect spillage. |
| Methods for cleaning up | : Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. |
| Other information | : Dispose of materials or solid residues at an authorized site. |

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|-------------------------------|--|
| Precautions for safe handling | : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from food and drink. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| Hygiene measures | : Keep away from food, drink and animal feeding stuffs. Do not inhale vapour. Avoid contact with skin, eyes and clothing. Remove contaminated clothes. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|--------------------|--|
| Storage conditions | : Keep container tight closed. Store in a well-ventilated place. Keep cool. |
| Storage area | : Containers which are opened should be properly resealed and kept upright to prevent leakage. Keep only in original container. Protect from heat and direct sunlight. |

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Incompatible products : Strong acids.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Manganese oxide (MnO₂) (1313-13-9)

Finland - Occupational Exposure Limits

| | |
|------------------------------------|--|
| HTP-arvo (8h) (mg/m ³) | 0.02 mg/m ³ (respirable dust) |
|------------------------------------|--|

Latvia - Occupational Exposure Limits

| | |
|------------------------------|--|
| OEL TWA (mg/m ³) | 0.3 mg/m ³ (disintegration aerosol) |
|------------------------------|--|

Sodium azide (26628-22-8)

EU - Occupational Exposure Limits

| | |
|--------------------------------|-----------------------|
| IOELV TWA (mg/m ³) | 0.1 mg/m ³ |
|--------------------------------|-----------------------|

| | |
|---------------------------------|-----------------------|
| IOELV STEL (mg/m ³) | 0.3 mg/m ³ |
|---------------------------------|-----------------------|

| | |
|-------|--|
| Notes | Possibility of significant uptake through the skin |
|-------|--|

Austria - Occupational Exposure Limits

| | |
|--------------------------|-----------------------|
| MAK (mg/m ³) | 0.1 mg/m ³ |
|--------------------------|-----------------------|

| | |
|---|-----------------------|
| MAK Short time value (mg/m ³) | 0.3 mg/m ³ |
|---|-----------------------|

| | |
|----------------------------|---------------|
| OEL chemical category (AT) | Skin notation |
|----------------------------|---------------|

Belgium - Occupational Exposure Limits

| | |
|----------------------------|---------------------|
| OEL chemical category (BE) | Skin, Skin notation |
|----------------------------|---------------------|

Bulgaria - Occupational Exposure Limits

| | |
|------------------------------|-----------------------|
| OEL TWA (mg/m ³) | 0.1 mg/m ³ |
|------------------------------|-----------------------|

| | |
|-------------------------------|-----------------------|
| OEL STEL (mg/m ³) | 0.3 mg/m ³ |
|-------------------------------|-----------------------|

Croatia - Occupational Exposure Limits

| | |
|--|-----------------------|
| GVI (granična vrijednost izloženosti) (mg/m ³) | 0.1 mg/m ³ |
|--|-----------------------|

| | |
|--|-----------------------|
| KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³) | 0.3 mg/m ³ |
|--|-----------------------|

| | |
|----------------------------|---------------|
| OEL chemical category (HR) | Skin notation |
|----------------------------|---------------|

Cyprus - Occupational Exposure Limits

| | |
|------------------------------|-----------------------|
| OEL TWA (mg/m ³) | 0.1 mg/m ³ |
|------------------------------|-----------------------|

| | |
|-------------------------------|-----------------------|
| OEL STEL (mg/m ³) | 0.3 mg/m ³ |
|-------------------------------|-----------------------|

| | |
|----------------------------|---|
| OEL chemical category (CY) | Skin-potential for cutaneous absorption |
|----------------------------|---|

Czech Republic - Occupational Exposure Limits

| | |
|---|-----------------------|
| Expoziční limity (PEL) (mg/m ³) | 0.1 mg/m ³ |
|---|-----------------------|

| | |
|----------------------------|------------------------------------|
| OEL chemical category (CZ) | Potential for cutaneous absorption |
|----------------------------|------------------------------------|

Denmark - Occupational Exposure Limits

| | |
|---|-----------------------|
| Grænseværdie (langvarig) (mg/m ³) | 0.1 mg/m ³ |
|---|-----------------------|

| | |
|----------------------------|------------------------------------|
| OEL chemical category (DK) | Potential for cutaneous absorption |
|----------------------------|------------------------------------|

Estonia - Occupational Exposure Limits

| | |
|------------------------------|-----------------------|
| OEL TWA (mg/m ³) | 0.1 mg/m ³ |
|------------------------------|-----------------------|

| | |
|-------------------------------|-----------------------|
| OEL STEL (mg/m ³) | 0.3 mg/m ³ |
|-------------------------------|-----------------------|

| | |
|----------------------------|---------------------------|
| OEL chemical category (ET) | Sensitizer, Skin notation |
|----------------------------|---------------------------|

Finland - Occupational Exposure Limits

| | |
|------------------------------------|-----------------------|
| HTP-arvo (8h) (mg/m ³) | 0.1 mg/m ³ |
|------------------------------------|-----------------------|

| | |
|-------------------|-----------------------|
| HTP-arvo (15 min) | 0.3 mg/m ³ |
|-------------------|-----------------------|

| | |
|----------------------------|------------------------------------|
| OEL chemical category (FI) | Potential for cutaneous absorption |
|----------------------------|------------------------------------|

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| France - Occupational Exposure Limits | |
|---|--|
| VME (mg/m ³) | 0.1 mg/m ³ (restrictive limit) |
| VLE (mg/m ³) | 0.3 mg/m ³ (restrictive limit) |
| OEL chemical category (FR) | Risk of cutaneous absorption |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| TRGS 900 Occupational exposure limit value (mg/m ³) | 0.2 mg/m ³ |
| Gibraltar - Occupational Exposure Limits | |
| Eight hours mg/m ³ | 0.1 mg/m ³ |
| Short-term mg/m ³ | 0.3 mg/m ³ |
| OEL chemical category (GI) | Skin notation |
| Greece - Occupational Exposure Limits | |
| OEL TWA (mg/m ³) | 0.3 mg/m ³ |
| OEL TWA (ppm) | 0.1 ppm |
| OEL STEL (mg/m ³) | 0.3 mg/m ³ |
| OEL STEL (ppm) | 0.1 ppm |
| Hungary - Occupational Exposure Limits | |
| AK-érték | 0.1 mg/m ³ |
| CK-érték | 0.3 mg/m ³ |
| Ireland - Occupational Exposure Limits | |
| OEL (8 hours ref) (mg/m ³) | 0.1 mg/m ³ |
| OEL (15 min ref) (mg/m ³) | 0.3 mg/m ³ |
| OEL chemical category (IE) | Potential for cutaneous absorption |
| Italy - Occupational Exposure Limits | |
| OEL TWA (mg/m ³) | 0.1 mg/m ³ |
| OEL STEL (mg/m ³) | 0.3 mg/m ³ |
| OEL chemical category (IT) | skin - potential for cutaneous absorption |
| Latvia - Occupational Exposure Limits | |
| OEL TWA (mg/m ³) | 0.1 mg/m ³ |
| OEL chemical category (LV) | skin - potential for cutaneous exposure |
| Lithuania - Occupational Exposure Limits | |
| IPRV (mg/m ³) | 0.1 mg/m ³ |
| TPRV (mg/m ³) | 0.3 mg/m ³ |
| OEL chemical category (LT) | Skin notation |
| Luxembourg - Occupational Exposure Limits | |
| OEL chemical category (LU) | Possibility of significant uptake through the skin |
| Malta - Occupational Exposure Limits | |
| OEL TWA (mg/m ³) | 0.1 mg/m ³ |
| OEL STEL (mg/m ³) | 0.3 mg/m ³ |
| OEL chemical category (MT) | Possibility of significant uptake through the skin |
| Netherlands - Occupational Exposure Limits | |
| Grenswaarde TGG 8H (mg/m ³) | 0.1 mg/m ³ |
| Grenswaarde TGG 15MIN (mg/m ³) | 0.3 mg/m ³ |
| MAC chemical category | Skin notation |
| Poland - Occupational Exposure Limits | |
| NDS (mg/m ³) | 0.1 mg/m ³ |

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| | |
|--|---|
| NDSch (mg/m ³) | 0.3 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA (mg/m ³) | 0.1 mg/m ³ (indicative limit value) |
| OEL STEL (mg/m ³) | 0.3 mg/m ³ (indicative limit value) |
| OEL - Ceilings (mg/m ³) | 0.29 mg/m ³ |
| OEL - Ceilings (ppm) | 0.11 ppm (vapor) |
| OEL chemical category (PT) | A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure indicative limit value |
| Romania - Occupational Exposure Limits | |
| OEL TWA (mg/m ³) | 0.1 mg/m ³ |
| OEL STEL (mg/m ³) | 0.3 mg/m ³ |
| OEL chemical category (RO) | Skin notation |
| Slovakia - Occupational Exposure Limits | |
| NPHV (priemerná) (mg/m ³) | 0.1 mg/m ³ |
| NPHV (Hraničná) (mg/m ³) | 0.3 mg/m ³ |
| OEL chemical category (SK) | Potential for cutaneous absorption |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA (mg/m ³) | 0.1 mg/m ³ |
| OEL STEL (mg/m ³) | 0.3 mg/m ³ |
| OEL chemical category (SL) | Potential for cutaneous absorption |
| Spain - Occupational Exposure Limits | |
| VLA-ED (mg/m ³) | 0.1 mg/m ³ (indicative limit value) |
| VLA-EC (mg/m ³) | 0.3 mg/m ³ |
| OEL chemical category (ES) | skin - potential for cutaneous absorption |
| Sweden - Occupational Exposure Limits | |
| nivågränsvärde (NVG) (mg/m ³) | 0.1 mg/m ³ |
| kortidsvärde (KTV) (mg/m ³) | 0.3 mg/m ³ |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (mg/m ³) | 0.1 mg/m ³ |
| WEL STEL (mg/m ³) | 0.3 mg/m ³ |
| WEL chemical category | Potential for cutaneous absorption |
| Norway - Occupational Exposure Limits | |
| Grenseverdier (AN) (mg/m ³) | 0.1 mg/m ³ |
| Grenseverdier (Korttidsverdi) (mg/m ³) | 0.3 mg/m ³ (value from the regulation) |
| Switzerland - Occupational Exposure Limits | |
| MAK (mg/m ³) | 0.2 mg/m ³ (inhalable dust) |
| KZGW (mg/m ³) | 0.4 mg/m ³ (inhalable dust) |
| Turkey - Occupational Exposure Limits | |
| OEL TWA (mg/m ³) | 0.1 mg/m ³ |
| OEL STEL (mg/m ³) | 0.3 mg/m ³ |
| OEL chemical category (TR) | Skin notation |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH Ceiling (mg/m ³) | 0.29 mg/m ³ |
| ACGIH Ceiling (ppm) | 0.11 ppm |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen |

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Propylene carbonate (108-32-7)

Latvia - Occupational Exposure Limits

OEL TWA (mg/m³) : 2 mg/m³

Lithuania - Occupational Exposure Limits

IPRV (mg/m³) : 7 mg/m³

Ethylene glycol dimethyl ether (110-71-4)

Latvia - Occupational Exposure Limits

OEL TWA (mg/m³) : 10 mg/m³

Poland - Occupational Exposure Limits

NDS (mg/m³) : 10 mg/m³

Lithium (7439-93-2)

Sweden - Occupational Exposure Limits

kortidsvärde (KTV) (mg/m³) : 0.02 mg/m³ (inhalable dust)

8.2. Appropriate engineering controls

Appropriate engineering controls : In case of inadequate ventilation wear respiratory protection. Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Protective gloves. EN 374.
Appropriate material: Butyl rubber.
Material thickness: > 0.4 mm
Breakthrough time: > 480 min
Eye protection : Safety glasses with side shields (EN 166).
Skin and body protection : Wear suitable protective clothing
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state : Solid
Appearance : Capsule
Colour : Not data available
Odour : Not data available
Odour threshold : Not available
Melting point : Not available
Freezing point : Not available
Boiling point : Not available
Flammability (solid, gas) : Non flammable
Explosive limits : Not available
Lower explosive limit (LEL) : Not available
Upper explosive limit (UEL) : Not available
Flash point : Not available
Auto-ignition temperature : Not available
Decomposition temperature : Not available
pH : 8.3 - 8.8
pH solution : Not available
Viscosity, kinematic (calculated value) (40 °C) : Not available
Log Pow : Manganese oxide (MnO₂) (1313-13-9): < 0 (at 20 °C)

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| | |
|----------------------------------|------------------------|
| Log Kow | : Not available |
| Vapour pressure | : Not available |
| Vapour pressure at 50 °C | : Not available |
| Density | : Not available |
| Relative density | : Not available |
| Relative vapour density at 20 °C | : Not available |
| Solubility | : Miscible with water. |
| Viscosity, dynamic | : Not available |
| Explosive properties | : Not available |
| Oxidising properties | : Not available |

9.2. Data relevant with regard to physical hazard classes (supplemental)

Additional information : No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Incompatible materials.

10.5. Incompatible materials

Strong acids.

10.6. Hazardous decomposition products

Nitrogen oxides, chlorides, metal oxide

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|-------------------|
| Acute toxicity (oral) | : Not classified. |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| Manganese oxide (MnO ₂) (1313-13-9) | |
|---|-----------------------------------|
| LD50 oral rat | 9000 mg/kg |
| Sodium azide (26628-22-8) | |
| LD50 oral rat | 27 mg/kg |
| Propylene carbonate (108-32-7) | |
| LD50 oral rat | 29000 mg/kg |
| LD50 dermal rabbit | > 3000 mg/kg |
| Ethylene glycol dimethyl ether (110-71-4) | |
| LD50 oral rat | > 4000 mg/kg |
| LD50 dermal rabbit | 1000 - 2000 mg/kg |
| LC50 inhalation rat (mg/l) | 20 - 63 mg/l (Exposure time: 6 h) |
| Nickel(II) sulfate hexahydrate (1:1:6) (10101-97-0) | |
| LD50 oral rat | 264 mg/kg |

| | |
|-----------------------------------|------------------------------------|
| Skin corrosion/irritation | : Not classified. pH: 8.3 - 8.8 |
| Serious eye damage/irritation | : Not classified. pH: 8.3 - 8.8 |
| Respiratory or skin sensitisation | : Not classified |

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| | |
|------------------------|------------------|
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|--------------------------|---|
| Ecology - general | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Acute aquatic toxicity | : Not classified |
| Chronic aquatic toxicity | : Not classified |

Sodium azide (26628-22-8)

| | |
|-------------|---|
| LC50 fish 1 | 0.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) |
| LC50 fish 2 | 0.7 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus) |

12.2. Persistence and degradability

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| | |
|-------------------------------|---------------------------|
| Persistence and degradability | No information available. |
|-------------------------------|---------------------------|

12.3. Bioaccumulative potential

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| | |
|---------------------------|---------------------------|
| Log Kow | No information available. |
| Bioaccumulative potential | No information available. |

Manganese oxide (MnO₂) (1313-13-9)

| | |
|------------|-----------------------------|
| BCF fish 1 | No bioaccumulation expected |
| Log Kow | < 0 (at 20 °C) |

12.4. Mobility in soil

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| | |
|------------------|-------------------------------------|
| Mobility in soil | No additional information available |
|------------------|-------------------------------------|

12.5. Other adverse effects

| | |
|-----------------------|---------------------------------------|
| Ozone | : Not classified |
| Other adverse effects | : No additional information available |

SECTION 13: Disposal considerations

13.1. Disposal methods

| | |
|--|---|
| Waste treatment methods | : Dispose of according to all applicable regulations upon consultation of the local competent authorities and the disposer in a suitable and authorised disposal facility. Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company. |
| Product/Packaging disposal recommendations | : Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer. |

SECTION 14: Transport information




In accordance with IMDG / IATA / UN RTDG

| UN RTDG | IMDG | IATA |
|------------------------|------|------|
| 14.1. UN number | | |
| 3363 | 3363 | 3363 |

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| 14.2. UN Proper Shipping Name | | |
|---|---|---|
| DANGEROUS GOODS IN MACHINERY | DANGEROUS GOODS IN MACHINERY | Dangerous goods in machinery |
| 14.3. Transport hazard class(es) | | |
| 9 | 9 | 9 |
|  |  |  |
| 14.4. Packing group | | |
| Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | |
| Dangerous for the environment : No | Dangerous for the environment : No Marine pollutant : No | Dangerous for the environment : No |
| No supplementary information available | | |

14.6. Special precautions for user

- UN RTDG

Special provisions (UN RTDG) : 301
 Limited quantities (UN RTDG) : 0
 Excepted quantities (UN RTDG) : E0
 Packing instruction (UN RTDG) : P907

- IMDG

Special provisions (IMDG) : 301
 Packing instructions (IMDG) : P907
 EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
 EmS-No. (Spillage) : S-P - SPILLAGE SCHEDULE Papa - SUBSTANCES DANGEROUS WHEN WET (COLLECTABLE ARTICLES)
 Stowage category (IMDG) : A
 Properties and observations (IMDG) : Types of articles transported under this entry contain only limited quantities of dangerous goods.

- IATA

PCA Excepted quantities (IATA) : E0
 PCA Limited quantities (IATA) : Forbidden
 PCA limited quantity max net quantity (IATA) : Forbidden
 PCA packing instructions (IATA) : See 962
 PCA max net quantity (IATA) : See 962
 CAO packing instructions (IATA) : See 962
 CAO max net quantity (IATA) : See 962
 Special provisions (IATA) : A48, A107
 ERG code (IATA) : 9L

14.7. Transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

New Zealand

| HSNO approval number: | |
|-----------------------|-----------|
| CAS# 1313-13-9 | HSR003741 |
| CAS# 10034-81-8 | HSR006373 |
| CAS# 26628-22-8 | HSR004681 |
| CAS# 108-32-7 | HSR003348 |
| CAS# 110-71-4 | HSR001137 |
| CAS# 7439-93-2 | HSR001278 |
| CAS# 10101-97-0 | HSR005214 |

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National regulations

| | |
|--|--|
| Manganese oxide (MnO₂) (1313-13-9) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Magnesium perchlorate (10034-81-8) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Sodium azide (26628-22-8) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 | |
| CERCLA RQ | 1000 lb |
| Section 302 EPCRA Reportable Quantity (RQ) | 1000 lb |
| SARA Section 302 Threshold Planning Quantity (TPQ) | 500 lb (this material is a reactive solid, the TPQ does not default to 10000 pounds for non-powder, non-molten, non-solution form) |
| Propylene carbonate (108-32-7) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Ethylene glycol dimethyl ether (110-71-4) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| EPA TSCA Regulatory Flag | S - S - indicates a substance that is identified in a final Significant New Use Rule. |
| Lithium (7439-93-2) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Manganese oxide (MnO₂) (1313-13-9) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| Magnesium perchlorate (10034-81-8) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| Sodium azide (26628-22-8) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| Propylene carbonate (108-32-7) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| Ethylene glycol dimethyl ether (110-71-4) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| Lithium (7439-93-2) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| Manganese oxide (MnO₂) (1313-13-9) | |
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) | |
| Magnesium perchlorate (10034-81-8) | |
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) | |
| Sodium azide (26628-22-8) | |
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) | |
| Propylene carbonate (108-32-7) | |
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) | |
| Ethylene glycol dimethyl ether (110-71-4) | |
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) | |
| Lithium (7439-93-2) | |
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) | |
| Manganese oxide (MnO₂) (1313-13-9) | |
| Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Japanese Pollutant Release and Transfer Register Law (PRTR Law) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory) | |

KRONES celerol LU 7608 (Lubricant system)

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Magnesium perchlorate (10034-81-8)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

Sodium azide (26628-22-8)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Japanese Poisonous and Deleterious Substances Control Law
Japanese Pollutant Release and Transfer Register Law (PRTR Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

Propylene carbonate (108-32-7)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

Ethylene glycol dimethyl ether (110-71-4)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

Lithium (7439-93-2)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

Nickel(II) sulfate hexahydrate (1:1:6) (10101-97-0)

Listed on IARC (International Agency for Research on Cancer)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Japanese Pollutant Release and Transfer Register Law (PRTR Law)
Listed as carcinogen on NTP (National Toxicology Program)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

SECTION 16: Other information

Date of issue : 24/12/2019
Revision date : 13/03/2020

Indication of changes:

No information available.

Data sources : ECHA, Loli.

13/03/2020

EN (English)

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According to Hazardous Substances and New Organisms Act 1996 & Hazardous Substances (Safety Data Sheets) Notice 2017

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| Abbreviations and acronyms | : ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road EC50 - Median effective concentration IATA - International Air Transport Association IMDG - International Maritime Dangerous Goods LC50 - Median lethal concentration LD50 - Median lethal dose RID - Regulations concerning the International Carriage of Dangerous Goods by Rail SDS - Safety Data Sheet |
| Training advice | : Normal use of this product shall imply use in accordance with the instructions on the packaging. |
| Other information | : No information available |

| Full text of H-statements: | |
|----------------------------|---|
| H301 | Toxic if swallowed |
| H316 | Causes mild skin irritation |
| H319 | Causes serious eye irritation |
| H330 | Fatal if inhaled |
| H360 | May damage fertility or the unborn child |
| H362 | May cause harm to breast-fed children |
| H370 | Causes damage to organs |
| H412 | Harmful to aquatic life with long lasting effects |

SDS NZ

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.