

Unirust A MoS2 Art. nr. 149040206

Date 17.5.2017

Previous date: 1.3.2016

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier****1.1.1 Commercial Product Name**

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1.2 Relevant identified uses of the substance or mixture and uses advised against**1.2.1 Recommended use**

Lubricant

1.3 Details of the supplier of the safety data sheet**1.3.1 Supplier**

Luna Verktyg & Maskin AB

Postcode and post office

SE-441 80 Alingsås

Telephone

+46 322 60 60 00

Email

jorgen.bengtsson@luna.se

1.4 Emergency telephone number**1.4.1 Telephone number, name and address**

Sverige 020-996 000 (Kemiakuten), Norge +47 22 59 13 00 (Giftinformation)

2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****1272/2008 (CLP)**

Flam. Aerosol 1, H222

Flam. Aerosol 1, H229

EUH066

67/548/EEC - 1999/45/EC

F+, Xi; R12-36-67-66

2.2 Label elements**1272/2008 (CLP)**

GHS02

Signal word

Danger**Hazard Statements**

H222

Extremely flammable aerosol.

H229

Pressurised container: May burst if heated.

EUH066

Repeated exposure may cause skin dryness or cracking.

Precautionary Statements

P102

Keep out of reach of children.

P210

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P211

Do not spray on an open flame or other ignition source.

P251

Do not pierce or burn, even after use.

P262

Do not get in eyes, on skin, or on clothing.

P410+P412

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

2.3 Other hazards

not determined

**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Hazardous components****CAS/EC and Reg.
number****Chemical name of the
substance****Concentration Classification**

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106-97-8	butan	20-30%	F+; R12 ;Flam. Gas 1, H220; Press. Gas 200-857-2
74-98-6	propan	20-30%	F+; R12 ;Flam. Gas 1, H220; Press. Gas 200-827-9
64742-81-0	Kerosine(petroleum),hydrodesulfurized	40-60%	Xn; R65-66 ;Asp. Tox. 1, H304 265-184-9

4. FIRST AID MEASURES**4.1 Description of first aid measures**

Do not induce vomiting; contains petroleum distillates and/or aromatic solvents.

4.1.2 Inhalation

In the case of inhalation of aerosol/mist consult a physician if necessary.

4.1.3 Skin contact

Get medical attention if symptoms occur.

4.1.4 Eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

4.1.5 Ingestion

If swallowed, call a poison control centre or doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Aspiration hazard if swallowed - can enter lungs and cause damage.

4.3 Indication of immediate medical attention and special treatment needed

Aspiration hazard

5. FIREFIGHTING MEASURES**5.1 Extinguishing media****5.1.1 Suitable extinguishing media**

Alcohol-resistant foam

5.1.2 Extinguishing media which must not be used for safety reasons

Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

Explosive reaction may occur on heating or burning.

5.3 Advice for firefighters

Alcohol-resistant foam

5.4 Specific methods

Immediately evacuate personnel to safe areas.

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Prevent unauthorised persons entering the zone. Prevent unauthorised persons entering the zone. Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.

6.2 Environmental precautions

Prevent product from entering drains.

6.3 Methods and materials for containment and cleaning up

not determined

6.4 Reference to other sections

not determined

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7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Do not use in areas without adequate ventilation. No sparking tools should be used. Do not taste or swallow. Do not spray on a naked flame or any incandescent material. Do not smoke. Do not empty into drains. Do not store near combustible materials. Take precautionary measures against static discharges. Prevent vapour buildup by providing adequate ventilation during and after use.

7.2 Conditions for safe storage, including any incompatibilities

Do not store near combustible materials. Storage of flammable liquids

7.3 Specific end use(s)

No known effect.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****8.1.1 Threshold limits**

106-97-8	butan	800 ppm (8 h)	1000 ppm (15 min)
		1900 mg/m ³ (8 h)	2350 mg/m ³ (15 min)
74-98-6	propan	800 ppm (8 h)	1100 ppm (15 min)
		1500 mg/m ³ (8 h)	2000 mg/m ³ (15 min)

8.1.2 Other information on limit values

not determined

8.1.4 DNELs

not determined

8.1.5 PNECs

not determined

8.2 Exposure controls**8.2.1 Appropriate engineering controls**

not determined

8.2.2 Individual protection measures**8.2.2.1 Respiratory protection**

Provide adequate ventilation. Do not inhale aerosol. Even in case of a full release, due to the small amount of substances present, it is not expected that exposure limits will be reached.

8.2.2.2 Hand protection

It is good practice in industrial hygiene to avoid contact with solvents by using appropriate protective measures whenever possible.

8.2.2.3 Eye/face protection

Avoid contact with the skin and the eyes.

8.2.2.4 Skin protection

Avoid contact with the skin and the eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Important Health Safety and Environmental Information****9.1.1 Appearance**

aerosol

9.1.2 Odour

hydrocarbon-like

9.1.3 Odour threshold

not determined

9.1.4 pH

7

9.1.5 Melting point/freezing point

-10°C

9.1.6 Initial boiling point and boiling range

< -20 °C

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9.1.7	Flash point	< 0 °C
9.1.8	Evaporation rate	not determined
9.1.9	Flammability (solid, gas)	Extremely flammable.
9.1.10	Explosive properties	
9.1.10.1	Lower explosion limit	2,3 til-%
9.1.10.2	Upper explosion limit	9,5 til-%
9.1.11	Vapour pressure	not determined
9.1.12	Vapour density	not determined
9.1.13	Relative density	not determined
9.1.14	Solubility(ies)	
9.1.14.1	Water solubility	insoluble
9.1.14.2	Fat solubility (solvent - oil to be specified)	Soluble in hydrocarbons
9.1.15	Partition coefficient: n-octanol/water	not determined
9.1.16	Auto-ignition temperature	not determined
9.1.17	Decomposition temperature	not determined
9.1.18	Viscosity	not determined
9.1.19	Explosive properties	not determined
9.1.20	Oxidising properties	not determined
9.2	Other information	

10. STABILITY AND REACTIVITY

10.1	Reactivity Exposure to sunlight.
10.2	Chemical stability Stable
10.3	Possibility of hazardous reactions not determined
10.4	Conditions to avoid Do not expose to temperatures above 50 °C.
10.5	Incompatible materials No known effect.
10.6	Hazardous decomposition products No known effect.

11. TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects
11.1.1	Acute toxicity LD50/oral/rat => 5000 mg/kg (OECD 401, 423) LC50/inhalation/ 4 h/rat => 5000 mg/m ³ , ilma (OECD 403) LD50/dermal/rabbit => 3000 mg/kg; LD50/ihon kautta/rotta = >2000 mg/kg (OECD 402)
11.1.2	Irritation and corrosion Solvents may degrease the skin. Prolonged skin contact may cause skin irritation.
11.1.5	STOT-single exposure Aspiration hazard
11.1.6	STOT-repeated exposure No known effect.
11.1.7	Aspiration hazard Aspiration hazard if swallowed - can enter lungs and cause damage.

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11.1.8 Other information on acute toxicity

No known effect.

12. ECOLOGICAL INFORMATION**12.1 Toxicity****12.1.1 Aquatic toxicity**

LC50/96h/rainbow trout =10<LC/EC

LC50/96h/algae =10mg/l1

LC50/96h/Sheephead minnows =May cause long-term adverse effects in the aquatic environment.

12.1.2 Toxicity to other organisms

No known effect.

12.2 Persistence and degradability**12.2.1 Biodegradation**

Bioaccumulation is unlikely.

12.2.2 Chemical degradation

Readily biodegradable, according to appropriate OECD test.

12.3 Bioaccumulative potential

Bioaccumulation is unlikely.

12.4 Mobility in soil

No known effect.

12.5 Results of PBT and vPvB assessment

not determined

12.6 Other adverse effects

No known effect.

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Do not burn, or use a cutting torch on, the empty drum. Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

14.1	UN number	1950
14.2	UN proper shipping name	Aerosols
14.3	Transport hazard class(es)	2.1
14.4	Packing group	2
14.5	Environmental hazards	not determined
14.6	Special precautions for users	not determined
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	not determined

15. REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
2B - Aerosols
- 15.2 Chemical safety assessment**
not determined

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16. OTHER INFORMATION**16.1 Additions, Deletions, Revisions**

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements

R12	Extremely flammable.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.