

## SAFETY DATA SHEET

### UNIRUST A MoS2 UNIVERSAL AEROSOL RUSTSOLVER 149040107

Last changed: 15/05/2012

Internal No: 149040107

#### 1 Identification of the substance/mixture and of the company/undertaking

##### 1.1 Product identifier

Trade name / designation UNIRUST A MoS2 UNIVERSAL AEROSOL RUSTSOLVER 149040107

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

##### 1.3 Details of the supplier of the safety data sheet

###### NATIONAL MANUFACTURER/IMPORTER

Enterprise Luna Verktyg & Maskin AB  
Postal code SE-441 80 ALINGSÅS  
Country SVERIGE  
Telephone + 46 322 60 60 00  
Fax + 46 322 60 64 43

###### CONTACT PERSONS

Name	E-mail	Telephone	Country
Jörgen Bengtsson		+ 46 322 60 64 52	

#### 2 Hazards identification

##### 2.1 Classification of the substance or mixture

DPD Classification: F+; R12  
CLP Classification: Flam. Gas 1H220  
Most important HSE hazard effects: Extremely flammable gas.

##### 2.2 Label elements



Signal word: None

EC-Label: No

##### COMPOSITION

KOLVÄTEBLANDNING (30 - 40 %), MINERALOIL (10 - 20 %), MoS2 (1 - 3 %), PROPAN (5 - 15 %), BUTAN ( 15 %)

###### H Statements

H220 Extremely flammable gas.

###### P Statements

P102 Keep out of reach of children.  
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P262 Do not get in eyes, on skin, or on clothing.

##### SUPPLEMENTAL HAZARD INFORMATION (EU)

Repeated exposure may cause skin dryness or cracking.

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#### 2.3 Other hazards

##### OTHER HAZARDS

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

#### 3 Composition/information on ingredients

##### 3.2 Mixtures

Ingredient name	Reg.No	EC No.	CAS No.	Conc. (wt%)	DPD-Classification	CLP-classification
KOLVÄTEBLANDNING			64741-65-7	30 - 40 %	Xn,R65 - R66	STOT SE 1 H370 EUH066
MINERALOIL			74869-22-0	10 - 20 %		
MoS2			1317-33-5	1 - 3 %		
PROPAN			74-98-6	5 - 15 %	F+,R12	Flam. Gas 1 H220
BUTAN			106-97-8	15 %	F+,R12	Flam. Gas 1 H220

Full text of R-, H- and EUH-phrases: see section 16.

The EUH hazard statements mentioned in CLP-classification are only label elements.

#### 4 First aid measures

##### 4.1 Description of first aid measures

###### INGESTION

DO NOT INDUCE VOMITING! Contact physician. Risk of lung damage.

###### SKIN CONTACT

Wash skin with soap and water.

###### EYE CONTACT

Rinse thoroughly with water until the irritation subsides. Get medical attention if any discomfort continues.

##### 4.2 Most important symptoms and effects, both acute and delayed

##### 4.3 Indication of any immediate medical attention and special treatment needed

###### INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

#### 5 Fire-fighting measures

##### 5.1 Extinguishing media

###### SUITABLE EXTINGUISHING MEDIA:

Extinguishing agent: carbon dioxide, powder, foam or sand.

##### 5.2 Special hazards arising from the substance or mixture

###### SPECIAL HAZARDS

Aerosols can explode when heated to temperatures over 50 °C.

##### 5.3 Advice for fire-fighters

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### ADVICE FOR FIREFIGHTERS

Use a fresh air breathing apparatus and protective suit.

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### 6 Accidental release measures

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#### 6.1 Personal precautions, protective equipment and emergency procedures

##### PERSONAL PRECAUTIONS

Evacuate the area.

##### FOR NON-EMERGENCY PERSONNEL

Evacuate the area. Always keep away from sources of ignition. No smoking. Wear protective clothing.

##### FOR EMERGENCY RESPONDERS

Evacuate the area. Always keep away from sources of ignition. No smoking. Wear protective clothing.

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#### 6.2 Environmental precautions

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#### 6.3 Methods and material for containment and cleaning up

##### METHODS AND MATERIAL

Product and packaging waste is handled according to local regulations.

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#### 6.4 Reference to other sections

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### 7 Handling and Storage

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#### 7.1 Precautions for safe handling

##### PRECAUTION FOR SAFE HANDLING

Avoid inhaling vapour/aerosol/mist. Avoid heat, sparks and open flame.

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#### 7.2 Conditions for safe storage, including any incompatibilities

##### CONDITION FOR SAFE STORAGE, INCLUDING ANY UNCOMPATIBILITIES

Keep container in a well-ventilated place. Keep away from sources of ignition - No smoking.

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#### 7.3 Specific end uses

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### 8 Exposure controls / Personal protection

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#### 8.1 Control parameters

##### OEL value

Ingredient name	CAS no.	Range	ppm	mg/m <sup>3</sup>	Year	Notification
PROPAN	74-98-6	15 min.	1100	2000		
PROPAN	74-98-6	8 h	800	1500		
BUTAN	106-97-8	15 min.	1000	2350		
BUTAN	106-97-8	8 h	800	1900		
KOLVÄTEBLANDNING	64741-65-7	15 min.		1200		
KOLVÄTEBLANDNING	64741-65-7	8 h		900		

R=Toxic for reproduction, H=Skin absorption, K=Carcinogenic, A=Sensitising, T=Upper limit, M=Mutagenic

#### OTHER INFORMATION REGARDING LIMIT VALUES AND MONITORING

Respiratory protection must be used if air concentration exceeds acceptable level.

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#### 8.2 Exposure controls

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### APPROPRIATE ENGINEERING CONTROLS

Use only in well-ventilated areas. Avoid contact with the skin and eyes.

### EYE PROTECTION

Use eye protection.

### SKIN PROTECTION

Avoid prolonged or repeated contact.

### HAND PROTECTION

Protective gloves (nitrile rubber, PVC).

### RESPIRATORY PROTECTION

Wear suitable respiratory protection.

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## 9 Physical and chemical Properties

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### 9.1 Information on basic physical and chemical properties

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**PHYSICAL STATE**      Liquid.

**COLOUR**                Grayish.

**WATER SOLUBILITY** Insoluble in water.

Parameter	Value/unit	Method/reference	Observation
pH concentrate	No data		
pH in solution	No data		
Melting point	No data		
Freezing point	No data		
Initial boiling point and boiling range	190 - 210 °C	Kolväteblandning	1)
Flash point	< 0 °C		
Evaporation rate	No data		
Flammability (solid, gas)	No data		
Flammability limits	No data		
Explosion limits	2,3 - 9,5 %	Propan	
Vapour pressure	No data		
Vapour density	No data		
Relative density	No data		
Partition coefficient	No data		
Auto-ignition temprature	No data		
Decomposition temprature	No data		
Viscosity	No data		

### 9.2 Other safety information

Parameter	Value/unit	Method/reference	Observation
Density	690 kg/m <sup>3</sup>		

Note no.	Comments
1	NOT TRANSLATED

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## 10 Stability and Reactivity

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### 10.1 Reactivity

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### 10.2 Chemical stability

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### 10.3 Possibility of hazardous reactions

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### 10.4 Conditions to avoid

### 10.5 Incompatible materials

### 10.6 Hazardous decomposition products:

## 11 Toxicological information

### 11.1 Toxicological effects

#### ACUTE TOXICITY - ORAL

Harmful: may cause lung damage if swallowed.

#### SKIN CORROSION/IRRITATION

Irritating to skin. Repeated exposure may cause skin dryness or cracking.

#### SERIOUS EYE DAMAGE/IRRITATION

Irritating to eyes.

## 12 Ecological information

### 12.1 Toxicity

#### ECOTOXICITY

Evaporates partially from water and the ground. In the event of spillage on the ground, the product will be adsorbed to earth particles. Discharge of large volumes can pollute the ground and groundwater.

### 12.2 Persistence and degradability

### 12.3 Bioaccumulative potential

### 12.4 Mobility in soil

### 12.5 Results of PBT and vPvB assessment

### 12.6 Other adverse effects

## 13 Disposal considerations

### 13.1 Waste treatment methods

## 14 Transport information

Classified as Dangerous Goods:    Yes

### Land transport (ADR/RID)

14.1 UN-No.	1950		14.4 Packing group
14.2 Proper Shipping Name			14.5 Environmental hazards
14.3 Class(es)	2		
Hazard label(s)	2.1		
Hazard ID:			Tunnel restriction code

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<b>Inland water ways transport (ADN)</b>	
<b>14.1 UN-No.</b> 1950  <b>14.2 Proper Shipping Name</b>  <b>14.3 Class(es)</b> 2.1  Enviromentally hazardous in tank-vessels	<b>14.4 Packing group</b> <b>14.5 Environmental hazards</b>

<b>Sea transport (IMDG)</b>	
<b>14.1 UN-No.</b> 1950  <b>14.2 Proper Shipping Name</b>  <b>14.3 Class(es)</b> 2.1 Sub Risk: <b>IMDG Code segregation group</b> <b>Marine pollutant</b> No <b>EMS:</b> F-D,S-U	<b>14.4 Packing group</b> <b>14.5 Environmental hazards</b>

<b>Air transport (ICAO-TI / IATA-DGR)</b>	
<b>14.1 UN-No.</b> 1950  <b>14.2 Proper Shipping Name</b>  <b>14.3 Class(es)</b> 2.1 <b>Hazard label(s)</b>	<b>14.4 Packing group</b> <b>14.5 Environmental hazards</b>

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### 15 Regulatory information

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

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**15.2 Chemical Safety Assessment**

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### 16 Other information

<b>LIST OF RELEVANT R-PHRASES</b>	
R12	Extremely flammable.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.

<b>LIST OF RELEVANT H-STATEMENTS</b>	
H220	Extremely flammable gas.
H370	Causes damage to organs.
EUH066	Repeated exposure may cause skin dryness or cracking.