

## Lusin® Alro OL 202 F

Version 1.0

Revision Date 04.11.2013

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

#### 1.1 Product identifier

Product name : Lusin® Alro OL 202 F

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

Use of the Substance/Mixture : release agent spray

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

Chem-Trend (Deutschland) GmbH  
Ganghoferstr. 47  
D-82216 Maisach-Gernlinden  
Tel.: 0049 (0) 8142417-0  
Fax.: 0049 (0) 814215884

E-mail address : mcm@chemtrend.de  
Responsible/issuing person

National contact :

#### 1.4 Emergency telephone number

0049 (0) 8142417-1169

### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (67/548/EEC, 1999/45/EC)

Extremely flammable  
Irritant

R12: Extremely flammable.  
R36: Irritating to eyes.  
R67: Vapours may cause drowsiness and dizziness.

#### 2.2 Label elements

##### Labelling according to EC Directives (1999/45/EC)

Hazard pictograms :



Extremely flammable



Irritant

R-phrases)

: R12  
R36  
R67

Extremely flammable.  
Irritating to eyes.  
Vapours may cause drowsiness and dizziness.

S-phrases)

: S 9

Keep container in a well-ventilated place.

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S23	Do not breathe spray.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S51	Use only in well-ventilated areas.
S24/25	Avoid contact with skin and eyes.

Special labelling of certain mixtures : Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C.  
Do not pierce or burn, even after use.  
Do not spray on a naked flame or any incandescent material.  
Keep away from sources of ignition - No smoking.  
Keep out of the reach of children.

### 2.3 Other hazards

## 3. Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

Chemical Name	CAS-No. EC-No. Index-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
isopropanol	67-63-0 200-661-7 603-117-00-0 02- 2119457558- 25-XXXX	F; R11 Xi; R36 R67	Flam. Liq. 2; H225 Eye Irrit. 2A; H319 STOT SE 3; H336	>= 25 - < 50
WEL substance :				
butane	106-97-8 203-448-7 601-004-00-0 01- 2119474691- 32-0000	F+; R12	Flam. Gas 1; H220 Press. Gas H280	>= 50 - <= 100

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. First aid measures

### 4.1 Description of first aid measures

If inhaled : Call a physician or poison control centre immediately.  
Remove person to fresh air. If signs/symptoms continue, get medical attention.  
Keep patient warm and at rest.

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If unconscious place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.  
Wash off with soap and plenty of water.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.  
Seek medical advice.

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

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

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## 5. Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : none

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

Specific hazards during firefighting : Fire may cause evolution of:  
Carbon oxides

: Fire Hazard  
Do not let product enter drains.  
Contains gas under pressure; may explode if heated.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.  
In the case of respirable dust and/or fumes, use self-contained breathing apparatus.  
Exposure to decomposition products may be a hazard to health.

Further information : Standard procedure for chemical fires.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Cool containers / tanks with water spray.

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### 6. Accidental release measures

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

- Personal precautions : Evacuate personnel to safe areas.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
Refer to protective measures listed in sections 7 and 8.

#### 6.2 Environmental precautions

- Environmental precautions : Try to prevent the material from entering drains or water courses.  
Prevent further leakage or spillage if safe to do so.  
Local authorities should be advised if significant spillages cannot be contained.

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

- Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.  
Non-sparking tools should be used.

#### 6.4 Reference to other sections

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### 7. Handling and storage

#### 7.1 Precautions for safe handling

- Advice on safe handling : Use only in an area containing explosion proof equipment.  
Do not use in areas without adequate ventilation.  
Do not breathe vapours or spray mist.  
In case of insufficient ventilation, wear suitable respiratory equipment.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Keep away from fire, sparks and heated surfaces.  
Smoking, eating and drinking should be prohibited in the application area.  
Wash hands and face before breaks and immediately after handling the product.  
Do not get in eyes or mouth or on skin.  
Do not get on skin or clothing.  
Do not ingest.  
Do not use sparking tools.  
These safety instructions also apply to empty packaging which may still contain product residues.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

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

Requirements for storage areas and containers : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.  
Store in accordance with the particular national regulations.

### 7.3 Specific end use(s)

## 8. Exposure controls/personal protection

### 8.1 Control parameters

Components	CAS-No.	Value type	Control parameters	Update	Basis
butane	106-97-8	TWA	600 ppm 1,450 mg/m <sup>3</sup>	2007-08-01	GB EH40
Further information:	Carc: Capable of causing cancer and/or heritable genetic damage. The identified substances include those which: - are assigned the risk phrases 'R45: May cause cancer'; 'R46: may cause heritable genetic damage'; 'R49: May cause cancer by inhalation' or - a substance or process listed in Schedule 1 of COSHH. Carcinogenic only applies if butane contains more than 0.1% of buta-1,3-diene				
butane	106-97-8	STEL	750 ppm 1,810 mg/m <sup>3</sup>	2007-08-01	GB EH40
Further information:	Carc: Capable of causing cancer and/or heritable genetic damage. The identified substances include those which: - are assigned the risk phrases 'R45: May cause cancer'; 'R46: may cause heritable genetic damage'; 'R49: May cause cancer by inhalation' or - a substance or process listed in Schedule 1 of COSHH. Carcinogenic only applies if butane contains more than 0.1% of buta-1,3-diene				
isopropanol	67-63-0	TWA	400 ppm 999 mg/m <sup>3</sup>	2006-09-01	GB EH40
isopropanol	67-63-0	STEL	500 ppm 1,250 mg/m <sup>3</sup>	2006-09-01	GB EH40

### 8.2 Exposure controls

#### Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).  
Maintain air concentrations below occupational exposure standards.  
Use only in an area equipped with explosion proof exhaust ventilation.  
It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment.  
Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).  
none

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### Personal protective equipment

- Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
- Hand protection : For prolonged or repeated contact use protective gloves.  
Protective gloves  
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.  
The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.  
The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.
- Eye protection : Safety glasses with side-shields conforming to EN166
- Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.
- Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.  
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

### Environmental exposure controls

- General advice : Try to prevent the material from entering drains or water courses.  
Prevent further leakage or spillage if safe to do so.  
Local authorities should be advised if significant spillages cannot be contained.

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## 9. Physical and chemical properties

Values refer to the propellant

### 9.1 Information on basic physical and chemical properties

- Appearance : aerosol
- Colour : colourless
- Odour : characteristic
- Odour Threshold : no data available
- pH : no data available
- Melting point/range : no data available
- Boiling point/boiling range : -1 °C
- Flash point : -60 °C
- Evaporation rate : no data available

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Flammability (solid, gas)	: Extremely flammable aerosol.
Lower explosion limit	: 1.5 %(V)
Upper explosion limit	: 8.5 %(V)
Vapour pressure	: 1,200 hPa, 20 °C
Relative vapour density	: no data available
Density	: no data available
Water solubility	: immiscible
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Ignition temperature	: > 365 °C
Viscosity, dynamic	: no data available
Viscosity, kinematic	: no data available
Oxidizing properties	: no data available

### 9.2 Other information

Sublimation point	: no data available
Bulk density	: no data available

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## 10. Stability and reactivity

### 10.1 Reactivity

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	: Danger of receptacles bursting because of high vapour pressure when heated.
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### 10.4 Conditions to avoid

Conditions to avoid	: Heat, flames and sparks.
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### 10.5 Incompatible materials

Materials to avoid	: Oxidizing agents
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### 10.6 Hazardous decomposition products

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## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Product

Acute oral toxicity	: Effects due to ingestion may include:
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	: Central nervous system depression
Acute inhalation toxicity	: Respiration of solvent vapour may cause dizziness. : Respiratory disorder, Dizziness, Drowsiness, Vomiting, Fatigue, Vertigo, Central nervous system depression, Inhalation may provoke the following symptoms:
Acute dermal toxicity	: This information is not available.
Skin corrosion/irritation	: This information is not available.
Serious eye damage/eye irritation	: Contact with eyes may cause irritation., Causes eye burns., Irritating to eyes.
Respiratory or skin sensitisation	: This information is not available.
Carcinogenicity	: no data available
Reproductive toxicity	: no data available
Teratogenicity	: no data available
Repeated dose toxicity	: This information is not available.
Aspiration toxicity	: This information is not available.
Further information	: Information given is based on data on the components and the toxicology of similar products.

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## 12. Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish	: May cause long-term adverse effects in the aquatic environment.
Toxicity to daphnia and other aquatic invertebrates	: no data available
Toxicity to algae	: no data available
Toxicity to bacteria	: no data available

### 12.2 Persistence and degradability

#### Product:

Biodegradability	: no data available
Physico-chemical removability	: no data available

### 12.3 Bioaccumulative potential

#### Product:

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Bioaccumulation : This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)., This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

### 12.4 Mobility in soil

#### Product:

Mobility : no data available  
Distribution among environmental compartments : no data available

### 12.5 Results of PBT and vPvB assessment

### 12.6 Other adverse effects

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## 13. Disposal considerations

### 13.1 Waste treatment methods

Product : In accordance with local and national regulations.  
: Waste codes should be assigned by the user based on the application for which the product was used.  
Contaminated packaging : Offer empty spray cans to an established disposal company.  
Pressurized container: Do not pierce or burn, even after use.

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## 14. Transport information

### 14.1 UN number

ADR : 1950  
IMDG : 1950  
IATA : 1950

### 14.2 Proper shipping name

ADR : AEROSOLS  
IMDG : AEROSOLS  
IATA : AEROSOLS, FLAMMABLE

### 14.3 Transport hazard class

ADR : 2  
IMDG : 2.1  
IATA : 2.1

### 14.4 Packing group

ADR :  
Classification Code : 5F  
Labels : 2.1  
Tunnel restriction code : (D)  
IMDG  
Labels : 2.1  
EmS Number : F-D, S-U

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### IATA

Packing instruction (cargo aircraft) : 203  
Labels : 2.1

### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : no

#### IMDG

Marine pollutant : no

#### IATA

Environmentally hazardous : no

### 14.6 Special precautions for user

no data available

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available

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## 15. Regulatory information

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

Candidate List of Substances of Very High Concern for Authorisation : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Major Accident Hazard Legislation : 96/82/EC Update: 2003  
Extremely flammable  
8  
Quantity 1: 10 t  
Quantity 2: 50 t

### 15.2 Chemical Safety Assessment

This information is not available.

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## 16. Other information

### Full text of R-phrases referred to under sections 2 and 3

R11 Highly flammable.  
R12 Extremely flammable.  
R36 Irritating to eyes.  
R67 Vapours may cause drowsiness and dizziness.

### Full text of H-Statements referred to under sections 2 and 3.

H220 Extremely flammable gas.  
H225 Highly flammable liquid and vapour.  
H280 Contains gas under pressure; may explode if heated.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

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