

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : GRIP/AL
Vaporizer : Aerosol
Product group : Aerosol

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial
For professional use only
Function or use category : Aerosol

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

U-POL LIMITED
Denington Road
Northants
NN8 2QH Wellingborough - UK
T +44 (0) 1933 230310 - F +44 (0) 1933 425797
technical.department@u-pol.com - www.u-pol.com

1.4. Emergency telephone number

Emergency number : +44 1933 230310 (07:30 - 17:00hrs UK time)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aerosol 1 H222;H229
Liquefied gas H280
Skin Irrit. 2 H315
Eye Irrit. 2 H319
Repr. 2 H361
STOT SE 3 H336
STOT RE 2 H373

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Repr.Cat.3; R63

Xn; R48/20

Xi; R36/38

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS07

GHS08

Signal word (CLP) : Danger

Hazardous ingredients : toluene, propan-2-ol, Acetone

Hazard statements (CLP) : H222 - Extremely flammable aerosol

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H229 - Pressurised container: May burst if heated
H280 - Contains gas under pressure; may explode if heated
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H361 - Suspected of damaging fertility or the unborn child
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (CLP)

P211 - Do not spray on an open flame or other ignition source
P251 - Do not pierce or burn, even after use
P261 - Avoid breathing spray, vapours
P263 - Avoid contact during pregnancy/while nursing
P302+P352 - IF ON SKIN: Wash with plenty of water
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312 - Call a doctor if you feel unwell

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product identifier | % | Classification according to Directive 67/548/EEC |
|---|---|---------|--|
| toluene | (CAS No) 108-88-3 (EC no) 203-625-9 (EC index no) 601-021-00-3 | 43 - 63 | F; R11 Repr.Cat.3; R63 Xn; R65 Xn; R48/20 Xi; R38 R67 |
| dimethyl ether substance with a Community workplace exposure limit | (CAS No) 115-10-6 (EC no) 204-065-8 (EC index no) 603-019-00-8 | 23 - 43 | F+; R12 |
| Acetone | (CAS No) 67-64-1 (EC no) 200-662-2 (EC index no) 606-001-00-8 | 5 - 23 | F; R11 Xi; R36 R66 R67 |
| xylene | (CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9 | < 5 | R10 Xn; R20/21 Xi; R38 |
| ethylbenzene | (CAS No) 100-41-4 (EC no) 202-849-4 (EC index no) 601-023-00-4 | < 5 | F; R11 Xn; R20 |
| chlorobenzene | (CAS No) 108-90-7 (EC no) 203-628-5 (EC index no) 602-033-00-1 | < 5 | R10 Xn; R20 N; R51/53 |

| Name | Product identifier | Specific concentration limits |
|---------------|---|-------------------------------|
| xylene | (CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9 | (C >= 12.5) Xn;R20/21 |
| chlorobenzene | (CAS No) 108-90-7 (EC no) 203-628-5 (EC index no) 602-033-00-1 | (C >= 5) Xn;R20 |

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|---------|--|
| toluene | (CAS No) 108-88-3 (EC no) 203-625-9 (EC index no) 601-021-00-3 | 43 - 63 | Flam. Liq. 2, H225 Repr. 2, H361d Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336 |
| dimethyl ether substance with a Community workplace exposure limit | (CAS No) 115-10-6 (EC no) 204-065-8 (EC index no) 603-019-00-8 | 23 - 43 | Flam. Gas 1, H220 Press. Gas |
| Acetone | (CAS No) 67-64-1 (EC no) 200-662-2 (EC index no) 606-001-00-8 | 5 - 23 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---------------|---|-----|---|
| xylene | (CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9 | < 5 | Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 |
| ethylbenzene | (CAS No) 100-41-4 (EC no) 202-849-4 (EC index no) 601-023-00-4 | < 5 | Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304 |
| chlorobenzene | (CAS No) 108-90-7 (EC no) 203-628-5 (EC index no) 602-033-00-1 | < 5 | Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Aquatic Chronic 2, H411 |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention. |
| First-aid measures after inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. |
| First-aid measures after skin contact | : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Get medical advice/attention. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Get medical advice/attention. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. |

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

| | |
|--------------------------------------|---|
| Symptoms/injuries | : Suspected of damaging fertility or the unborn child. Causes damage to organs. |
| Symptoms/injuries after inhalation | : May cause drowsiness or dizziness. |
| Symptoms/injuries after skin contact | : Causes skin irritation. |
| Symptoms/injuries after eye contact | : Causes serious eye irritation. |

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

| | |
|-------------|--------------------------------|
| Fire hazard | : Extremely flammable aerosol. |
|-------------|--------------------------------|

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|--|
| General measures | : Remove ignition sources. No open flames. No smoking. |
|------------------|--|

6.1.1. For non-emergency personnel

| | |
|----------------------|--|
| Protective equipment | : Safety glasses. Protective clothing. Gloves. |
| Emergency procedures | : Evacuate unnecessary personnel. |

6.1.2. For emergency responders

| | |
|----------------------|--|
| Protective equipment | : Equip cleanup crew with proper protection. Avoid breathing spray, vapours. |
| Emergency procedures | : Ventilate area. |

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

| | |
|-----------------|--|
| For containment | : Contain released substance, pump into suitable containers. Collect spillage. |
|-----------------|--|

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Methods for cleaning up : Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing spray, vapours. Use only outdoors or in a well-ventilated area.

Hygiene measures : Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Ignition sources, Heat sources, Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Storage temperature : < 25 °C

Storage area : Store in a well-ventilated place.

Special rules on packaging : Keep only in original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| toluene (108-88-3) | | |
|---------------------------|---------------------------------|------------------------|
| United Kingdom | Local name | Toulene |
| United Kingdom | WEL TWA (mg/m ³) | 191 mg/m ³ |
| United Kingdom | WEL TWA (ppm) | 50 ppm |
| United Kingdom | WEL STEL (mg/m ³) | 384 mg/m ³ |
| United Kingdom | WEL STEL (ppm) | 100 ppm |
| United Kingdom | Remark (WEL) | Sk |
| dimethyl ether (115-10-6) | | |
| EU | Local name | Dimethylether |
| EU | IOELV TWA (mg/m ³) | 1920 mg/m ³ |
| EU | IOELV TWA (ppm) | 1000 ppm |
| United Kingdom | Local name | Dimethyl ether |
| United Kingdom | WEL TWA (mg/m ³) | 766 mg/m ³ |
| United Kingdom | WEL TWA (ppm) | 400 ppm |
| United Kingdom | WEL STEL (mg/m ³) | 958 mg/m ³ |
| United Kingdom | WEL STEL (ppm) | 500 ppm |
| ethylbenzene (100-41-4) | | |
| EU | Local name | Ethylbenzene |
| EU | IOELV TWA (mg/m ³) | 442 mg/m ³ |
| EU | IOELV TWA (ppm) | 100 ppm |
| EU | IOELV STEL (mg/m ³) | 884 mg/m ³ |
| EU | IOELV STEL (ppm) | 200 ppm |
| EU | Notes | Skin |
| United Kingdom | Local name | Ethylbenzene |
| United Kingdom | WEL TWA (mg/m ³) | 441 mg/m ³ |
| United Kingdom | WEL TWA (ppm) | 100 ppm |
| United Kingdom | WEL STEL (mg/m ³) | 552 mg/m ³ |
| United Kingdom | WEL STEL (ppm) | 125 ppm |
| United Kingdom | Remark (WEL) | Sk |
| chlorobenzene (108-90-7) | | |
| EU | Local name | Chlorobenzene |
| EU | IOELV TWA (mg/m ³) | 47 mg/m ³ |
| EU | IOELV TWA (ppm) | 10 ppm |
| EU | IOELV STEL (mg/m ³) | 94 mg/m ³ |

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| chlorobenzene (108-90-7) | | |
|---------------------------------|---------------------------------|-----------------------------------|
| EU | IOELV STEL (ppm) | 20 ppm |
| United Kingdom | Local name | Chlorobenzene |
| United Kingdom | WEL TWA (mg/m ³) | 4.7 mg/m ³ |
| United Kingdom | WEL TWA (ppm) | 1 ppm |
| United Kingdom | WEL STEL (mg/m ³) | 14 mg/m ³ |
| United Kingdom | WEL STEL (ppm) | 3 ppm |
| United Kingdom | Remark (WEL) | Sk |
| xylene (1330-20-7) | | |
| EU | Local name | Xylene, mixed isomers, pure |
| EU | IOELV TWA (mg/m ³) | 221 mg/m ³ |
| EU | IOELV TWA (ppm) | 50 ppm |
| EU | IOELV STEL (mg/m ³) | 442 mg/m ³ |
| EU | IOELV STEL (ppm) | 100 ppm |
| EU | Notes | Skin |
| United Kingdom | Local name | Xylene, o-,m-,p- or mixed isomers |
| United Kingdom | WEL TWA (mg/m ³) | 220 mg/m ³ |
| United Kingdom | WEL TWA (ppm) | 50 ppm |
| United Kingdom | WEL STEL (mg/m ³) | 441 mg/m ³ |
| United Kingdom | WEL STEL (ppm) | 100 ppm |
| United Kingdom | Remark (WEL) | Sk, BMGV |
| Acetone (67-64-1) | | |
| EU | Local name | Acetone |
| EU | IOELV TWA (mg/m ³) | 1210 mg/m ³ |
| EU | IOELV TWA (ppm) | 500 ppm |
| United Kingdom | Local name | Acetone |
| United Kingdom | WEL TWA (mg/m ³) | 1210 mg/m ³ |
| United Kingdom | WEL TWA (ppm) | 500 ppm |
| United Kingdom | WEL STEL (mg/m ³) | 3620 mg/m ³ |
| United Kingdom | WEL STEL (ppm) | 1500 ppm |

8.2. Exposure controls

| | |
|-----------------------------------|---|
| Personal protective equipment | : Avoid all unnecessary exposure. |
| Materials for protective clothing | : Impermeable clothing |
| Hand protection | : Wear protective gloves |
| Eye protection | : Chemical goggles or safety glasses |
| Skin and body protection | : Wear suitable protective clothing |
| Respiratory protection | : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended |
| Other information | : Do not eat, drink or smoke during use. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---------------------|
| Physical state | : Gas |
| Appearance | : Aerosol. |
| Colour | : Cloudy. |
| Odour | : characteristic. |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Non flammable |

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| | |
|----------------------------------|---|
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : insoluble in water. soluble in most organic solvents. |
| Log Pow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

| | |
|-------------|-----------------|
| VOC content | : 772 g/l |
| MIR | : 2.5 |
| Gas group | : Liquefied gas |

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|--|--|
| Acute toxicity | : Not classified |
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitisation | : Not classified Based on available data, the classification criteria are not met |
| Germ cell mutagenicity | : Not classified Based on available data, the classification criteria are not met |
| Carcinogenicity | : Not classified Based on available data, the classification criteria are not met |
| Reproductive toxicity | : Suspected of damaging fertility or the unborn child. |
| Specific target organ toxicity (single exposure) | : May cause drowsiness or dizziness. |
| Specific target organ toxicity (repeated exposure) | : May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | : Not classified Based on available data, the classification criteria are not met |

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| | |
|-----------|---------|
| Vaporizer | Aerosol |
|-----------|---------|

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

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12.2. Persistence and degradability

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Persistence and degradability : Not established.

12.3. Bioaccumulative potential

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Bioaccumulative potential : Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Remove waste in accordance with local and/or national regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 1950
UN-No. (IMDG) : 1950
UN-No.(IATA) : 1950
UN-No.(ADN) : 1950
UN-No. (RID) : 1950

14.2. UN proper shipping name

Proper Shipping Name (ADR) : AEROSOLS
Proper Shipping Name (IMDG) : AEROSOLS
Proper Shipping Name (IATA) : Aerosols, flammable
Proper Shipping Name (ADN) : AEROSOLS
Proper Shipping Name (RID) : AEROSOLS
Transport document description (ADR) : UN 1950 AEROSOLS, 2.1, (D)
Transport document description (IMDG) : UN 1950 AEROSOLS, 2.1

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 2.1
Danger labels (ADR) : 2.1



IMDG

Transport hazard class(es) (IMDG) : 2.1
Danger labels (IMDG) : 2.1



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IATA

Transport hazard class(es) (IATA) : 2.1
Hazard labels (IATA) : 2.1



ADN

Transport hazard class(es) (ADN) : 2.1
Danger labels (ADN) : 2.1



RID

Transport hazard class(es) (RID) : 2.1
Danger labels (RID) : 2.1



14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

14.6.1. Overland transport

Classification code (ADR) : 5F
Special provisions (ADR) : 190, 327, 344, 625
Limited quantities (ADR) : 1I
Excepted quantities (ADR) : E0
Packing instructions (ADR) : P207, LP02
Special packing provisions (ADR) : PP87, RR6, L2
Mixed packing provisions (ADR) : MP9
Transport category (ADR) : 2
Special provisions for carriage - Packages (ADR) : V14
Special provisions for carriage - Loading, unloading and handling (ADR) : CV9, CV12
Special provisions for carriage - Operation (ADR) : S2
Tunnel restriction code (ADR) : D

14.6.2. Transport by sea

Special provisions (IMDG) : 63, 190, 277, 327, 344, 959

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| | |
|-----------------------------------|--|
| Limited quantities (IMDG) | : SP277 |
| Excepted quantities (IMDG) | : E0 |
| Packing instructions (IMDG) | : P207, LP02 |
| Special packing provisions (IMDG) | : PP87, L2 |
| EmS-No. (Fire) | : F-D |
| EmS-No. (Spillage) | : S-U |
| Stowage category (IMDG) | : None |
| Stowage and segregation (IMDG) | : Protected from sources of heat For AEROSOLS with a maximum capacity of 1 litre: Category A. Segregation as for class 9 but 'Separated from' class 1 except division 1.4. For AEROSOLS with a capacity above 1 litre: Category B. Segregation as for the appropriate sub-division of class 2. For WASTE AEROSOLS: Category C. Clear of living quarters. Segregation as for the appropriate sub-division of class 2. |

14.6.3. Air transport

| | |
|--|--------------|
| PCA Excepted quantities (IATA) | : E0 |
| PCA Limited quantities (IATA) | : Y203 |
| PCA limited quantity max net quantity (IATA) | : 30kgG |
| PCA packing instructions (IATA) | : 203 |
| PCA max net quantity (IATA) | : 75kg |
| CAO packing instructions (IATA) | : 203 |
| CAO max net quantity (IATA) | : 150kg |
| Special provisions (IATA) | : A145, A167 |
| ERG code (IATA) | : 10L |

14.6.4. Inland waterway transport

| | |
|-----------------------------------|---------------------|
| Classification code (ADN) | : 5F |
| Special provisions (ADN) | : 19, 327, 344, 625 |
| Limited quantities (ADN) | : 1 L |
| Excepted quantities (ADN) | : E0 |
| Equipment required (ADN) | : PP, EX, A |
| Ventilation (ADN) | : VE01, VE04 |
| Number of blue cones/lights (ADN) | : 1 |
| Carriage prohibited (ADN) | : No |
| Not subject to ADN | : No |

14.6.5. Rail transport

| | |
|---|----------------------|
| Classification code (RID) | : 5F |
| Special provisions (RID) | : 190, 327, 344, 625 |
| Limited quantities (RID) | : 1L |
| Excepted quantities (RID) | : E0 |
| Packing instructions (RID) | : P207, LP02 |
| Special packing provisions (RID) | : PP87, RR6, L2 |
| Mixed packing provisions (RID) | : MP9 |
| Transport category (RID) | : 2 |
| Special provisions for carriage – Packages (RID) | : W14 |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW9, CW12 |
| Colis express (express parcels) (RID) | : CE2 |
| Hazard identification number (RID) | : 23 |
| Carriage prohibited (RID) | : No |

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

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VOC content : 772 g/l

Seveso Information : This product is subject to the Seveso Directive

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of R-, H- and EUH-phrases:

| | |
|-------------------------------------|--|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Aerosol 1 | Aerosol, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Gas 1 | Flammable gases, Category 1 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Liquefied gas | Gases under pressure : Liquefied gas |
| Press. Gas | Gases under pressure |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| H220 | Extremely flammable gas |
| H222 | Extremely flammable aerosol |
| H225 | Highly flammable liquid and vapour |
| H226 | Flammable liquid and vapour |
| H229 | Pressurised container: May burst if heated |
| H280 | Contains gas under pressure; may explode if heated |
| H304 | May be fatal if swallowed and enters airways |
| H312 | Harmful in contact with skin |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H336 | May cause drowsiness or dizziness |
| H361 | Suspected of damaging fertility or the unborn child |
| H361d | Suspected of damaging the unborn child |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H411 | Toxic to aquatic life with long lasting effects |
| R10 | Flammable |
| R11 | Highly flammable |
| R12 | Extremely flammable |
| R20 | Harmful by inhalation |
| R20/21 | Harmful by inhalation and in contact with skin |
| R36 | Irritating to eyes |
| R36/38 | Irritating to eyes and skin |

GRIP/AL

Safety Data Sheet

according to Regulation (EC) No. 453/2010

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| R38 | Irritating to skin |
| R48/20 | Harmful: danger of serious damage to health by prolonged exposure through inhalation |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| R63 | Possible risk of harm to the unborn child |
| R65 | Harmful: may cause lung damage if swallowed |
| R66 | Repeated exposure may cause skin dryness or cracking |
| R67 | Vapours may cause drowsiness and dizziness |
| F | Highly flammable |
| F+ | Extremely flammable |
| N | Dangerous for the environment |
| Xi | Irritant |
| Xn | Harmful |

UPOL SDS EU (no product code)

For professional use only.

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