




Safety Data Sheet

Universal Primer 933

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

| | | |
|-----|--|---|
| 1.1 | Trade name: | Universal Primer 933 |
| 1.2 | Relevant identified uses of the substance or mixture and uses advised against | |
| | Use of the substance/mixture: | Primer Adhesion promotor |
| 1.3 | Details of the supplier of the safety data sheet: Street: Place: Tel: Telefax E-mail: Internet: Responsible department: | ENKE-Werk Johannes Enke GmbH & Co. KG Hamburger Str. 16 40221 Düsseldorf, Germany +49 (0) 211 / 30 40 74 +49 (0) 211 / 39 37 18 info@enke-werk.de www.enke-werk.de/en On weekdays between 7 a.m. and 4 p.m. +49 (0) 211 / 30 40 74 |
| 1.4 | Emergency telephone number: | Poison Information Centre (24h): +49 (0) 551 / 19 240 |

SECTION 2: HAZARD IDENTIFICATION

| | | |
|-----|---|--|
| 2.1 | Classification of the substance or mixture Regulation (EC) No. 1272/2008 | |
| | Hazard categories: | |
| | Flammable liquid: | Flam. Liq. 2 |
| | Acute toxicity: | Acute Tox. 4 |
| | Skin corrosion/irritation: | Skin Irrit. 2 |
| | Serious eye damage/eye irritation | Eye Irrit. 2 |
| | Specific target organ toxicity - single exposure: | STOT SE 3 |
| | Specific target organ toxicity - single exposure: | STOT RE 2 |
| | Aspiration hazard: | Asp. Tox. 1 |
| | Hazardous to the aquatic environment | Aquatic Chronic |
| | Hazard Statements: | |
| | Highly flammable liquid and vapour. | |
| | May be fatal if swallowed and enters airway | |
| | Causes skin irritation. | |
| | Causes serious eye irritation. | |
| | Harmful if inhaled. | |
| | May cause respiratory irritation. | |
| | May cause damage to organs through prolonged or repeated exposure. | |
| | Harmful to aquatic life with long lasting effects. | |
| 2.2 | Label elements Regulation (EC) No. 1272/2008 | |
| | Hazard components for labelling | Xylene 4-methylpentan-2-one, isobutyl methyl ketone |
| | Signal word: | Danger |
| | Pictograms: | |
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| | Hazard statements | |
| | H225 | Highly flammable liquid and vapour. |
| | H304 | May be fatal if swallowed and enters airways. |
| | H315 | Causes skin irritation. |
| | H319 | Causes serious eye irritation. |
| | H332 | Harmful if inhaled. |
| | H335 | May cause respiratory irritation. |
| | H373 | May cause damage to organs through prolonged or repeated exposure. |
| | H412 | Harmful to aquatic life with long lasting effects. |
| | Precautionary statements | |
| | P261 | Avoid breathing vapour. |
| | P273 | Avoid release to the environment. |
| | P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| | P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| | P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| | P312 | Call a POISON CENTER/doctor if you feel unwell. |
| | P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| 2.3 | Other hazards | |
| | No information available. | |

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| 3.2 | Mixtures | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|---|------------------|---------------|----------|--|-------|----------|--|----------|--|--|---|--|-----------|--------|-----------|--|-----------|------------------|--|---|--|----------|--|-----------|--|-----------|--------------|--|---|--|------------|---|-------|--|-----------|--|--|---|--|--|
| | Chemical characterization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Solution of vinyl chloride polymers and solvents | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Hazardous components | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>CAS No</th> <th>Chemical name</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td></td> <td>EC No</td> <td>Index No</td> </tr> <tr> <td></td> <td>REACH No</td> <td></td> </tr> <tr> <td></td> <td colspan="2">Classification according to Regulation (EC) No. 1272/2008 [CLP]</td> </tr> <tr> <td>1330-20-7</td> <td>Xylene</td> <td>40 - 60 %</td> </tr> <tr> <td></td> <td>215-535-7</td> <td>01-2119488216-32</td> </tr> <tr> <td></td> <td colspan="2">Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H332 H312 H315 H319 H335 H373 H304</td> </tr> <tr> <td>108-10-1</td> <td>4-methylpentan-2-one, isobutyl methyl ketone</td> <td>10 - 30 %</td> </tr> <tr> <td></td> <td>203-550-1</td> <td>606-004-00-4</td> </tr> <tr> <td></td> <td colspan="2">Flam. Liq. 2, Acute Tox. 4, Eye Irrit. 2, STOT SE 3; H225 H332 H319 H335 EUH066</td> </tr> <tr> <td>64742-82-1</td> <td>Hydrocarbons, C9 - C12, n- alkanes, iso- alkanes, cyclic, aromatic (2-25 %)</td> <td>< 5 %</td> </tr> <tr> <td></td> <td>919-446-0</td> <td></td> </tr> <tr> <td></td> <td colspan="2">Flam. Liq. 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H336 H304 H411 EUH066</td> </tr> </tbody> </table> | CAS No | Chemical name | Quantity | | EC No | Index No | | REACH No | | | Classification according to Regulation (EC) No. 1272/2008 [CLP] | | 1330-20-7 | Xylene | 40 - 60 % | | 215-535-7 | 01-2119488216-32 | | Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H332 H312 H315 H319 H335 H373 H304 | | 108-10-1 | 4-methylpentan-2-one, isobutyl methyl ketone | 10 - 30 % | | 203-550-1 | 606-004-00-4 | | Flam. Liq. 2, Acute Tox. 4, Eye Irrit. 2, STOT SE 3; H225 H332 H319 H335 EUH066 | | 64742-82-1 | Hydrocarbons, C9 - C12, n- alkanes, iso- alkanes, cyclic, aromatic (2-25 %) | < 5 % | | 919-446-0 | | | Flam. Liq. 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H336 H304 H411 EUH066 | | |
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| 1330-20-7 | Xylene | 40 - 60 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 108-10-1 | 4-methylpentan-2-one, isobutyl methyl ketone | 10 - 30 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 203-550-1 | 606-004-00-4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 64742-82-1 | Hydrocarbons, C9 - C12, n- alkanes, iso- alkanes, cyclic, aromatic (2-25 %) | < 5 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 919-446-0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Full text of H and EUH statements: see section 16. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SECTION 4: FIRST AID MEASURES

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| 4.1 | Description of first aid measures | |
| | General information | Take off immediately all contaminated clothing |

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| | | and wash it before reuse. |
| | After inhalation | Provide fresh air. When in doubt or if symptoms are observed, get medical advice. |
| | After contact with skin | Pick up mechanically and wash immediately with plenty of water and soap. |
| | After contact with eyes | After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. |
| | After ingestion | Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Aspiration hazard! Call a physician in any case! |
| 4.2 | Most important symptoms and effects, both acute and delayed | No information available. |
| 4.3 | Indication of any immediate medical attention and special treatment needed | Treat symptomatically. Do NOT induce vomiting. Aspiration hazard! |

SECTION 5: FIREFIGHTING MEASURES

| | | |
|-----|---|---|
| 5.1 | Extinguishing media Suitable extinguishing media | Powder, Foam, Water spray jet, Carbon dioxide (CO ₂). |
| 5.2 | Special hazards arising from the substance or mixture | Flammable. Vapours can form explosive mixtures with air. In case of fire may be liberated: Carbon monoxide; Carbon dioxide (CO ₂); Hydrochloric gas; Gases/vapours, harmful. |
| 5.3 | Advice for firefighters | Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit. |
| | Additional information | Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. |

SECTION 6: ACCIDENTAL RELEASE MEASURES

| | | |
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| 6.1 | Personal precautions, protective equipment and emergency procedures | Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. |
| 6.2 | Environmental precautions | Do not allow uncontrolled discharge of product into the environment. Danger of explosion. Do not allow to enter into surface water or drains. |
| 6.3 | Methods and material for containment and cleaning up | Take up mechanically. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. |
| 6.4 | Reference to other sections | Safe handling: see section 7 Personal protection equipment: see section 8 |

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Disposal: see section 13

SECTION 7: HANDLING AND STORAGE

| | | |
|-----|--|--|
| 7.1 | Precautions for safe handling | |
| | Advice on safe handling | If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. |
| | Advice on protection against fire and explosion | Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air. |
| 7.2 | Conditions for safe storage, including any incompatibilities | |
| | Requirements for storage rooms and vessels | Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| 7.3 | Specific end use(s) | Primer / Adhesion promotor |

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | | | | | | | |
|-----|--|---|----------------------|-------------------|-----------------------|---------------|--------|--|
| 8.1 | Control parameters | | | | | | | |
| | Exposure limits (EH40) | | | | | | | |
| | CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin | |
| | 108-10-1 | 4-Methylpentan-2-one | 50 | 208 | | TWA (8 h) | WEL | |
| | | | 100 | 416 | | STEL (15 min) | WEL | |
| | 64-17-5 | Ethanol | 1000 | 1920 | | TWA (8 h) | WEL | |
| | | | - | - | | STEL (15 min) | WEL | |
| | 1330-20-7 | Xylene: mixed isomers | 50 | 220 | | TWA (8 h) | WEL | |
| | | | 100 | 441 | | STEL (15 min) | WEL | |
| | Biological Monitoring Guidance Values (EH40) | | | | | | | |
| | CAS No | Substance | Parameter | Value | Test material | Sampling time | | |
| | 108-10-1 | 4-methylpentan-2-one | 4-methylpentan-2-one | 20 µmol/L | urine | Post shift | | |
| | 1330-20-7 | Xylene, o-, m-, p- or mixed isomers | methyl hippuric acid | 650 mmol/mol | urine | Post shift | | |
| | DNEL/DMEL values | | | | | | | |
| | CAS No | Substance | | | | | | |
| | DNEL type | | Exposure route | Effect | Value | | | |
| | 64742-82-1 | Hydrocarbons, C9 - C12, n-alkanes, iso-alkanes, cyclic, aromatic (2-25 %) | | | | | | |
| | Worker DNEL, long-term | | dermal | systemic | 44 mg/kg bw/day | | | |
| | Worker DNEL, long-term | | inhalation | systemic | 330 mg/m ³ | | | |
| | Consumer DNEL, long-term | | dermal | systemic | 26 mg/kg bw/day | | | |
| | Consumer DNEL, long-term | | inhalation | systemic | 71 mg/m ³ | | | |
| | Consumer DNEL, long-term | | oral | systemic | 26 mg/kg bw/day | | | |

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| 8.2 | Exposure controls | |
| | Appropriate engineering controls | If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. |
| | Protective and hygiene measures | Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. |
| | Eye/face protection | Suitable eye protection: goggles. |
| | Hand protection | When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Our recommendation is as follows: Suitable materials for prolonged, direct contact (at least protection index 6, corresponding to > 480 minutes permeation time according to EN 374): Neoprene®, Viton®, PVC, butyl or nitrile rubber. Dispose of contaminated gloves. With proper, optimized operation, only short-term contact and liquid splashes are to be expected, therefore, according to DGUV Information 212-007, a glove with a minimum protection class of 1 (<10 min) is sufficient. It must be ensured that the gloves are changed at short notice in case of chemical contact. |
| | Skin protection | Wear suitable protective clothing. |
| | Respiratory protection | In case of inadequate ventilation wear respiratory protection. Fresh air mask. Short term filter device: A2 - P2. |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|-----|---|---------------------------|
| 9.1 | Information on basic physical and chemical properties | |
| | Physical State | Liquid |
| | Colour | transparent, light yellow |
| | Odour | like: Solvent |
| | | Test Method |
| | pH-Value | not determined |
| | Changes in the physical state | |
| | Melting point: | not determined |
| | Initial boiling point and boiling range: | ~ 80 °C |
| | Flash point: | 11 °C |
| | | DIN ISO 53213 |
| | Flammability | |
| | Solid: | not applicable |
| | Gas: | not applicable |
| | Lower explosion limits: | 0,6 vol. % |
| | Upper explosion limits: | 6,5 vol. % |
| | Ignition temperature: | 460 °C |
| | Auto-ignition temperature | |
| | Solid: | not applicable |
| | Gas: | not applicable |
| | Decomposition temperature: | not determined |
| | Oxidizing properties | |
| | Not oxidising. | |
| | Vapour pressure (at 55°C): | 0,015 - 0,02 hPa |
| | Density (at 20 °C): | ~ 0,9 g/cm ³ |

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| | Water solubility: | The study does not need to be conducted because the substance is known to be insoluble in water. |
| | Solubility in other solvents | |
| | not determined | |
| | Partition coefficient: | not determined |
| | Viscosity / dynamic: (at 20 °C) | 10 - 50 mPa·s |
| | Vapour density: | not determined |
| | Evaporation rate: | not determined |
| 9.2 | Other information | |
| | Solid content: | not determined |

SECTION 10: STABILITY AND REACTIVITY

| | | |
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| 10.1 | Reactivity | Flammable, Ignition hazard. |
| 10.2 | Chemical stability | The product is stable under storage at normal ambient temperatures. Upon overheating of the film, hydrogen chloride may split off |
| 10.3 | Possibility of hazardous reactions | No known hazardous reactions. |
| 10.4 | Conditions to avoid | Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. |
| 10.5 | Incompatible materials | No information available. |
| 10.6 | Hazardous decomposition products | No hazardous decomposition products if instructions for storage and handling are followed. |

SECTION 11: TOXICOLOGICAL INFORMATION

| | | | | | |
|------|---|---|-------------------|---------|----------|
| 11.1 | Information on toxicological effects | | | | |
| | Acute toxicity | | | | |
| | Harmful if inhaled. | | | | |
| | ATEmix calculated | | | | |
| | ATE (inhalative vapour) 14,84 mg/l; ATE (inhalative aerosol) 2,083 mg/l | | | | |
| | CAS No | Chemical name | | | |
| | | Exposure route | Dose | Species | Source |
| | 1330-20-7 | Xylene | | | |
| | | dermal | ATE 1100 mg/kg | | |
| | | inhalative vapour | ATE 11 mg/l | | |
| | | inhalative aerosol | ATE 1,5 mg/l | | |
| | 108-10-1 | 4-methylpentan-2-one, isobutyl methyl ketone | | | |
| | | oral | LD50 2080 mg/kg | Rat | RTECS |
| | | dermal | LD50 >16000 mg/kg | Rabbit | IUCLID |
| | | inhalative vapour | ATE 11 mg/l | | |
| | | inhalative aerosol | ATE 1,5 mg/l | | |
| | 64742-82-1 | Hydrocarbons, C9 - C12, n- alkanes, iso- alkanes, cyclic, aromatic (2-25 %) | | | |
| | | oral | LD50 >15000 mg/kg | Rat | OECD 401 |
| | | dermal | LD50 ~ 3400 mg/kg | Rabbit | OECD 402 |

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| Irritation and corrosivity |
| Causes skin irritation. Causes serious eye irritation. |
| STOT-single exposure |
| May cause respiratory irritation. |
| STOT-repeated exposure |
| May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard |
| May be fatal if swallowed and enters airways. |
| Additional information on tests |
| The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. |

SECTION 12: ECOLOGICAL INFORMATION

| 12.1 | Toxicity | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|--|---|---------------|-------------------------------------|----------|--|------|--|--|------------------|------|-----------|---------|--------|--------|----------|--|--|--|--|--|--|--|---------------------|---------------------|------|---------------------|--|--|--|----------------------|----------------|------|---------------------------|--|--|--|--------------------------|---------------|------|---------------|--------|--|------------|---|--|--|--|--|--|--|---------------------|--------------|------|-------------------------------------|----------|--|--|----------------------|----------------|------|---------------------------------|--|--|--|--------------------------|--------------|------|--------------------------------|----------|--|--|
| | <table border="1"> <thead> <tr> <th>CAS No</th> <th colspan="6">Chemical name</th> </tr> <tr> <th></th> <th>Aquatic toxicity</th> <th>Dose</th> <th>[h] [d]</th> <th>Species</th> <th>Source</th> <th>Method</th> </tr> </thead> <tbody> <tr> <td>108-10-1</td> <td colspan="6">4-methylpentan-2-one, isobutyl methyl ketone</td> </tr> <tr> <td></td> <td>Acute fish toxicity</td> <td>LC50 505 - 540 mg/l</td> <td>96 h</td> <td>Pimephales promelas</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Acute algae toxicity</td> <td>ErC50 400 mg/l</td> <td>96 h</td> <td>Selenastrum capricornutum</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Acute crustacea toxicity</td> <td>EC50 170 mg/l</td> <td>48 h</td> <td>Daphnia magna</td> <td>IUCLID</td> <td></td> </tr> <tr> <td>64742-82-1</td> <td colspan="6">Hydrocarbons, C9 - C12, n- alkanes, iso- alkanes, cyclic, aromatic (2-25 %)</td> </tr> <tr> <td></td> <td>Acute fish toxicity</td> <td>LC50 10 mg/l</td> <td>96 h</td> <td>Oncorhynchus mykiss (Rainbow trout)</td> <td>OECD 203</td> <td></td> </tr> <tr> <td></td> <td>Acute algae toxicity</td> <td>ErC50 4,6 mg/l</td> <td>72 h</td> <td>Pseudokirchneriella subcapitata</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Acute crustacea toxicity</td> <td>EC50 10 mg/l</td> <td>48 h</td> <td>Daphnia magna (Big water flea)</td> <td>OECD 202</td> <td></td> </tr> </tbody> </table> | CAS No | Chemical name | | | | | | | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method | 108-10-1 | 4-methylpentan-2-one, isobutyl methyl ketone | | | | | | | Acute fish toxicity | LC50 505 - 540 mg/l | 96 h | Pimephales promelas | | | | Acute algae toxicity | ErC50 400 mg/l | 96 h | Selenastrum capricornutum | | | | Acute crustacea toxicity | EC50 170 mg/l | 48 h | Daphnia magna | IUCLID | | 64742-82-1 | Hydrocarbons, C9 - C12, n- alkanes, iso- alkanes, cyclic, aromatic (2-25 %) | | | | | | | Acute fish toxicity | LC50 10 mg/l | 96 h | Oncorhynchus mykiss (Rainbow trout) | OECD 203 | | | Acute algae toxicity | ErC50 4,6 mg/l | 72 h | Pseudokirchneriella subcapitata | | | | Acute crustacea toxicity | EC50 10 mg/l | 48 h | Daphnia magna (Big water flea) | OECD 202 | | |
| CAS No | Chemical name | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 108-10-1 | 4-methylpentan-2-one, isobutyl methyl ketone | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Acute fish toxicity | LC50 505 - 540 mg/l | 96 h | Pimephales promelas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Acute algae toxicity | ErC50 400 mg/l | 96 h | Selenastrum capricornutum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Acute crustacea toxicity | EC50 170 mg/l | 48 h | Daphnia magna | IUCLID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 64742-82-1 | Hydrocarbons, C9 - C12, n- alkanes, iso- alkanes, cyclic, aromatic (2-25 %) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Acute fish toxicity | LC50 10 mg/l | 96 h | Oncorhynchus mykiss (Rainbow trout) | OECD 203 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Acute algae toxicity | ErC50 4,6 mg/l | 72 h | Pseudokirchneriella subcapitata | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Acute crustacea toxicity | EC50 10 mg/l | 48 h | Daphnia magna (Big water flea) | OECD 202 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12.2 | Persistence and degradability | The product has not been tested. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12.3 | Bioaccumulative potential | The product has not been tested. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Partition coefficient n-octanol/water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>CAS No</th> <th>Chemical name</th> <th>Log Pow</th> </tr> </thead> <tbody> <tr> <td>108-10-1</td> <td>4-methylpentan-2-one, isobutyl methyl ketone</td> <td>1,31</td> </tr> </tbody> </table> | CAS No | Chemical name | Log Pow | 108-10-1 | 4-methylpentan-2-one, isobutyl methyl ketone | 1,31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CAS No | Chemical name | Log Pow | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 108-10-1 | 4-methylpentan-2-one, isobutyl methyl ketone | 1,31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12.4 | Mobility in soil | The product has not been tested. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12.5 | Results of PBT and vPvB assessment | The product has not been tested. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12.6 | Other adverse effects | No information available. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Further information | Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SECTION 13: DISPOSAL CONSIDERATIONS

| | |
|------|--------------------------------|
| 13.1 | Waste treatment methods |
|------|--------------------------------|

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| Advice on disposal | Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Containers have to be emptied completely and free of drops after final product removal. Emptied packages can be returned to the partners of Kreislaufsystem Blechverpackungen Stahl (Recycling system for metal containers). Collection points are provided by the ENKE company as user of the mark. |
| Waste disposal number of waste from residues/unused products | 080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste |
| Waste disposal number of used product | 080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste |
| Contaminated packaging | Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself. |

SECTION 14: TRANSPORT INFORMATION

| Land transport (ADR/RID) | | |
|----------------------------------|-----------------------------|--------------|
| 14.1 | UN number: | UN 1263 |
| 14.2 | UN proper shipping name: | Paint |
| 14.3 | Transport hazard class(es): | 3 |
| 14.4 | Packing group: | II |
| | Hazard label: | 3 |
| | Classification code | F1 |
| | Special Provisions: | 163 640D 650 |
| | Limited quantity: | 5L |
| | Excepted quantity: | E2 |
| | Transport category: | 2 |
| | Hazard No: | 33 |
| | Tunnel restriction code: | D/E |
| Inland waterways transport (ADN) | | |
| 14.1 | UN number: | Un 1263 |
| 14.2 | UN proper shipping name: | Paint |
| 14.3 | Transport hazard class(es): | 3 |
| 14.4 | Packing group: | II |
| | Hazard label: | 3 |
| | Classification code | F1 |
| | Special Provisions: | 163 640D 650 |
| | Limited quantity: | 5L |
| | Excepted quantity: | E2 |
| Marine transport (IMDG) | | |
| 14.1 | UN number: | UN 1263 |

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| | | |
|------|--|---------------------------|
| 14.2 | UN proper shipping name: | Paint |
| 14.3 | Transport hazard class(es): | 3 |
| 14.4 | Packing group: | II |
| | Hazard label: | 3 |
| | Marine pollutant: | No |
| | Special Provisions: | 163 |
| | Limited quantity: | 5L |
| | Excepted quantity: | E2 |
| | EmS: | F-E, S-E |
| 14.5 | Environmental hazards | |
| | ENVIRONMENTALLY HAZARDOUS: | no |
| 14.6 | Special precautions for user | No information available. |
| 14.7 | Transport in bulk according to Annex II of Marpol and the IBC Code | not applicable |

SECTION 15: REGULATORY INFORMATION

| | | |
|------|---|---|
| 15.1 | Safety, health and environmental regulations/ legislation specific for the substance or mixture | |
| | EU regulatory information | |
| | Additional information | To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC |
| | National regulatory information | |
| | Employment restrictions: | Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. |
| | Water contaminating class (D): | 2 - clearly water contaminating |
| | Skin resorption/Sensitisation: | Permeates easily through outer skin and causes poisoning. |
| 15.2 | Chemical safety assessment | Chemical safety assessments for substances in this mixture were not carried out. |

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

| | |
|---------|---|
| ADR: | Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) |
| IMDG: | International Maritime Code for Dangerous Goods |
| IATA: | International Air Transport Association |
| GHS: | Globally Harmonized System of Classification and Labelling of Chemicals |
| EINECS: | European Inventory of Existing Commercial Chemical Substances |
| ELINCS: | European List of Notified Chemical Substances |
| CAS: | Chemical Abstracts Service |
| LC50: | Lethal concentration, 50% |
| LD50: | Lethal dose, 50% |

Relevant H and EUH statements (number and full text)

| | |
|------|---|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |

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|--------|--|
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

| | |
|--|-----------------|
| Last update date (ENKE-Werk) | 02.08.2018 |
| Moy Materials Ltd version prepared by | Martin Bidewell |

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.