

PRIMER FOR WS RAPIDE WINDSCREEN ADHESIVE

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

1.1. Product identifier

Product name

**PRIMER WS RAPIDE WINDSCREEN
ADHESIVE**

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

One-component adhesion promoter for the automotive industry

1.3. Details of the supplier of the safety data sheet

Przedsiębiorstwo RANAL Sp. z o.o.

Tel: +48 34 329 45 03

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PL 42-240 Rudniki

Person responsible for the safety data sheet

ranal@ranal.pl

1.4. Emergency telephone number

+48 34 329-45-03 (from 8.00 am to 15.00 pm)

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

2.1.1. Regulation 1272/2008 (CLP) and following amendments and adjustments.

Hazard classification and indication:

| | | |
|--|------|--|
| Flammable liquid, category 2 | H225 | Highly flammable liquid and vapour. |
| Acute toxicity, category 4 | H332 | Harmful if inhaled. |
| Eye irritation, category 2 | H319 | Causes serious eye irritation. |
| Respiratory sensitization, category 1 | H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Skin sensitization, category 1 | H317 | May cause an allergic skin reaction. |
| Specific target organ toxicity - single exposure, category 3 | H336 | May cause drowsiness or dizziness. |

2.1.2. 67/548/EEC and 1999/45/EC Directives and following amendments and adjustments.

Danger Symbols: F-Xn

R phrases: 11-20-36-42/43-66

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Danger

Hazard statements:

| | |
|-------------|--|
| H225 | Highly flammable liquid and vapour. |
| H332 | Harmful if inhaled. |
| H319 | Causes serious eye irritation. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H317 | May cause an allergic skin reaction. |
| H336 | May cause drowsiness or dizziness. |

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EUH066
EUH204

Repeated exposure may cause skin dryness or cracking.
Contains isocyanates. May produce an allergic reaction.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves / eye protection / face protection.
P284 [In case of inadequate ventilation] wear respiratory protection.
P304+P340 IF INHALED: remove person to fresh air and keep comfortable for breathing.
P311 Call a POISON CENTER / doctor / . . .

Contains: ISOPHORONE DIISOCYANATE
DIPHENYLMETHANE-4,4'-DIISOCYANATE
METHYL ETHYL KETONE

2.3. Other hazards.

Information not available.

SECTION 3. Composition/information on ingredients.**3.1. Substances.**

Information not relevant.

3.2. Mixtures.**Contains:**

| Identification. | Conc. %. | Classification 67/548/EEC. | Classification 1272/2008 (CLP). |
|--|----------|--|---|
| METHYL ETHYL KETONE | | | |
| CAS. 78-93-3 | 62 - 65 | F R11, Xi R36, R66, R67 | Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066 |
| EC. 201-159-0 | | | |
| <i>INDEX. 606-002-00-3</i> | | | |
| ISOPHORONE DIISOCYANATE | | | |
| CAS. 4098-71-9 | 1,5 - 2 | T R23, Xi R36/37/38, Xn R42/43, N R51/53, Note 2 | Acute Tox. 1 H330, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317, Aquatic Chronic 2 H411, Note 2 |
| EC. 223-861-6 | | | |
| <i>INDEX. 615-008-00-5</i> | | | |
| DIPHENYLMETHANE-4,4'-DIISOCYANATE | | | |
| CAS. 101-68-8 | 0,9 - 1 | Carc. Cat. 3 R40, Xn R20, Xi R36/37/38, Xn R42/43, Xn R48/20, Note 2 C | Carc. 2 H351, Acute Tox. 4 H332, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317, Note 2 C |
| EC. 202-966-0 | | | |
| <i>INDEX. 615-005-00-9</i> | | | |
| <i>REG. NO. 01-2119457014-47-XXXX</i> | | | |

Note: Upper limit is not included into the range.

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

T+ = Very Toxic(T+), T = Toxic(T), Xn = Harmful(Xn), C = Corrosive(C), Xi = Irritant(Xi), O = Oxidizing(O), E = Explosive(E), F+ = Extremely Flammable(F+), F = Highly Flammable(F), N = Dangerous for the Environment(N)

SECTION 4. First aid measures.**4.1. Description of first aid measures.**

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

SECTION 5. Firefighting measures.

PRIMER FOR WS RAPIDE WINDSCREEN ADHESIVE**5.1. Extinguishing media.**

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health.

Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.**6.1. Personal precautions, protective equipment and emergency procedures.**

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.**7.1. Precautions for safe handling.**

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

SECTION 8. Exposure controls/personal protection.**8.1. Control parameters.**

Regulatory References:

| | | |
|-----|------------------|--|
| AUS | Österreich | Grenzwerteverordnung 2011 - GKV 2011 |
| BEL | Belgique | AR du 11/3/2002. La liste est mise à jour pour 2010 |
| CHE | Suisse / Schweiz | Valeurs limites d'exposition aux postes de travail 2012. / Grenzwerte am Arbeitsplatz |
| CYP | Κύπρος | Κ. .Π. 268/2001; Κ. .Π. 55/2004; Κ. .Π. 295/2007; Κ. .Π. 70/2012 |
| DEU | Deutschland | MAK-und BAT-Werte-Liste 2012 |
| ESP | España | Publicación: Límites de Exposición Profesional para Agentes Químicos en Espana 2012 |
| FIN | Suomi | HTP-arvot 2012. Haitallisiksi tunnetut pitoisuudet - Sosiaali- ja terveystieteiden tutkimuskeskuksen julkaisu 2012:5 |
| FRA | France | JORF n°0109 du 10 mai 2012 page 8773 texte n° 102 |

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| | | |
|-----|----------------|--|
| GRB | United Kingdom | EH40/2005 Workplace exposure limits |
| GRC | Ελλάδα | ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012 |
| HRV | Hrvatska | NN13/09- Institut za sigurnost Zagreb |
| IRL | Éire | Code of Practice Chemical Agent Regulations 2011 |
| ITA | Italia | Decreto Legislativo 9 Aprile 2008, n.81 |
| SWE | Sverige | Occupational Exposure Limit Values, AF 2011:18 |
| EU | OEL EU | Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC. |
| | TLV-ACGIH | ACGIH 2014 |

METHYL ETHYL KETONE**Threshold Limit Value.**

| Type | Country | TWA/8h | | STEL/15min | | |
|-----------|---------|--------|-----|------------|-----|-------|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| MAK | AUS | 295 | 100 | 590 | 200 | SKIN. |
| VLEP | BEL | 600 | 200 | 900 | 300 | |
| VEL | CHE | 590 | 200 | 590 | 200 | SKIN. |
| MAK | CHE | 590 | 200 | 590 | 200 | SKIN. |
| TLV | CYP | 600 | 200 | 900 | 300 | |
| AGW | DEU | 600 | 200 | 600 | 200 | SKIN. |
| MAK | DEU | 600 | 200 | 600 | 200 | SKIN. |
| VLA | ESP | 600 | 200 | 900 | 300 | |
| HTP | FIN | | | 300 | 100 | SKIN. |
| VLEP | FRA | 600 | 200 | 900 | 300 | SKIN. |
| WEL | GRB | 600 | 200 | 899 | 300 | SKIN. |
| TLV | GRC | 600 | 200 | 900 | 300 | |
| GVI | HRV | 600 | 200 | 900 | 300 | SKIN. |
| MDK | HRV | 590 | 200 | 885 | 300 | |
| OEL | IRL | 600 | 200 | 900 | 300 | SKIN. |
| TLV | ITA | 600 | 200 | 900 | 300 | |
| MAK | SWE | 150 | 50 | 300 | 100 | |
| OEL | EU | 600 | 200 | 900 | 300 | |
| TLV-ACGIH | | 590 | 200 | 885 | 300 | |

ISOPHORONE DIISOCYANATE**Threshold Limit Value.**

| Type | Country | TWA/8h | | STEL/15min | | |
|--|---------|--------|-------|------------|-----|--------------|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| TLV-ACGIH | | | 0,005 | | | |
| Predicted no-effect concentration - PNEC. | | | | | | |
| Normal value in fresh water | | | | | | 0,06 mg/l |
| Normal value in marine water | | | | | | 0,006 mg/l |
| Normal value for fresh water sediment | | | | | | 218,92 mg/kg |
| Normal value for marine water sediment | | | | | | 21,89 mg/kg |
| Normal value of STP microorganisms | | | | | | 10,6 mg/l |
| Normal value for the terrestrial compartment | | | | | | 44,01 mg/kg |

DIPHENYLMETHANE-4,4'-DIISOCYANATE**Threshold Limit Value.**

| Type | Country | TWA/8h | | STEL/15min | | |
|-----------|---------|--------|-------|------------|-----------|--------|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| MAK | AUS | 0,05 | 0,005 | 0,1 | 0,01 | |
| VLEP | BEL | 0,052 | 0,005 | | | |
| AGW | DEU | 0,05 | | 0,05 | | |
| MAK | DEU | 0,05 | | 0,05 | | INHAL. |
| MAK | DEU | 0,05 | | 0,05 | | SKIN. |
| VLA | ESP | 0,052 | 0,005 | | | |
| VLEP | FRA | 0,1 | 0,01 | 0,2 | 0,02 | |
| TLV | GRC | 0,2 | | 0,2 | | |
| MDK | HRV | 0,005 | 55 | | | |
| OEL | IRL | 0,02 | | 0,07 | | |
| MAK | SWE | 0,03 | 0,002 | 0,05 (C) | 0,005 (C) | |
| TLV-ACGIH | | 0,051 | 0,005 | | | |

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls.

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As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must be CE marked, showing that it complies with applicable standards. Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

| | |
|--|----------------|
| Appearance | liquid |
| Colour | black |
| Odour | solvent |
| Odour threshold. | Not available. |
| pH. | Not available. |
| Melting point / freezing point. | Not available. |
| Initial boiling point. | 80 °C. |
| Boiling range. | Not available. |
| Flash point. | -10 °C. |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |
| Lower flammability limit. | Not available. |
| Upper flammability limit. | Not available. |
| Lower explosive limit. | 0,8 % (V/V). |
| Upper explosive limit. | 11,5 % (V/V). |
| Vapour pressure. | 150 hPa |
| Vapour density | 2,5 |
| Relative density. | 0,95 Kg/l |
| Solubility | Not available. |
| Partition coefficient: n-octanol/water | Not available. |
| Auto-ignition temperature. | 400 °C. |
| Decomposition temperature. | Not available. |
| Viscosity | Not available. |
| Explosive properties | Not available. |
| Oxidising properties | Not available. |

9.2. Other information.

| | | | | |
|------------------------------|---------|---|--------|----------|
| VOC (Directive 1999/13/EC) : | 61,91 % | - | 588,10 | g/litre. |
| VOC (volatile carbon) : | 43,26 % | - | 410,98 | g/litre. |

SECTION 10. Stability and reactivity.

10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

METHYL ETHYL KETONE: reacts with light metals like aluminium, and with strong oxidising agents; attacks various types of plastic. Decomposes under the effect of heat.

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

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10.3. Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air.

METHYL ETHYL KETONE: may generate peroxides on contact with air, light or oxidising agents. Risk of explosion on contact with: hydrogen peroxide and sulphuric acid. It may react dangerously with: oxidising agents, trichloromethane, alkalis. Forms explosive mixtures with the air.

10.4. Conditions to avoid.

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

METHYL ETHYL KETONE: avoid exposure to sources of heat.

10.5. Incompatible materials.

METHYL ETHYL KETONE: strong oxidising agents, inorganic acids, ammonia, copper and chloroform.

10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

SECTION 11. Toxicological information.

11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

Acute effects: inhalation of this product is harmful.

Exposure symptoms may include: stinging and irritated eyes, mouth, nose, throat; cough, respiratory disorders, dizziness, headache, nausea and sickness. In the most serious cases, inhalation of this product may cause larynx and bronchial tube edema and irritation, chemical pneumonia and pulmonary edema.

Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation.

Vapour inhalation may moderately irritate the upper respiratory tract. Contact with skin may cause slight irritation.

Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

Inhalation of this product causes sensitization, which may then give rise to a series of inflammatory episodes, most of all characterized by obstruction and affecting the respiratory system. Sometimes, sensitization phenomena arise together with evident rhinitis and asthma.

Damages to the respiratory system depend on the inhaled quantity, on the product concentration in the working environment and on the exposure time.

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurvies, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurfy skin, dryness, ulcerations and skin thickening prevail during the chronic phase.

This product contains highly volatile substances, which may cause serious depression of the central nervous system (CNS) and have negative effects, such as drowsiness, dizziness, slow reflexes, narcosis.

ISOPHORONE DIISOCYANATE

| | |
|--------------------|----------------------------------|
| LD50 (Oral). | 4814 mg/kg Rattus sp. |
| LD50 (Dermal). | > 7000 mg/kg Rattus sp. |
| LC50 (Inhalation). | 0,031 mg/l Rattus sp. (aereosol) |

DIPHENYLMETHANE-4,4'-DIISOCYANATE

| | |
|--------------------|------------------------------|
| LD50 (Oral). | > 2000 mg/kg Rattus sp. |
| LD50 (Dermal). | > 9400 mg/kg Oryctolagus sp. |
| LC50 (Inhalation). | 2,24 mg/l Rattus sp. |

METHYL ETHYL KETONE

| | |
|--------------------|-------------------|
| LD50 (Oral). | 2737 mg/kg Rat |
| LD50 (Dermal). | 6480 mg/kg Rabbit |
| LC50 (Inhalation). | 23,5 mg/l/8h Rat |

SECTION 12. Ecological information.

12.1. Toxicity.

DIPHENYLMETHANE-4,4'-DIISOCYANATE

| | |
|--|-----------------------------------|
| LC50 - for Fish. | > 1000 mg/l/96h Danio rerio |
| Chronic NOEC for Algae / Aquatic Plants. | 1640 mg/l Desmodesmus subspicatus |

12.2. Persistence and degradability.

DIPHENYLMETHANE-4,4'-DIISOCYANATE

| | |
|----------------------------|----------------|
| Solubility in water. | mg/l 0,1 - 100 |
| NOT rapidly biodegradable. | |

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METHYL ETHYL KETONE
Solubility in water. > 10000 mg/l
Rapidly biodegradable.

12.3. Bioaccumulative potential.

DIPHENYLMETHANE-4,4'-DIISOCYANATE
Partition coefficient: n-octanol/water. 4,51

METHYL ETHYL KETONE
Partition coefficient: n-octanol/water. 0,3

12.4. Mobility in soil.

Information not available.

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Avoid littering. Do not contaminate soil, sewers and waterways.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations.

These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

Road and rail transport:

ADR/RID Class: 3 UN: 1139
Packing Group: II
Label: 3
Nr. Kemler: 33
Limited Quantity: 5 L
Tunnel restriction code: (D/E)
Proper Shipping Name: COATING SOLUTION



Carriage by sea (shipping):

IMO Class: 3 UN: 1139
Packing Group: II
Label: 3
EMS: F-E , S-E
Marine Pollutant: NO
Proper Shipping Name: COATING SOLUTION



Transport by air:

IATA: 3 UN: 1139
Packing Group: II
Label: 3
Cargo:
Packaging instructions: 364 Maximum quantity: 6 L



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Pass.:
 Packaging instructions: 353 Maximum quantity: 5 L
 Special Instructions: A3
 Proper Shipping Name: COATING SOLUTION

SECTION 15. Regulatory information.

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

Seveso category. 7b

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Product.

Point. 3 - 40

Contained substance.

Point. 56 DIPHENYLMETHANE-4,4'-DIISOCYANATE
 Reg. no.: 01-2119457014-47-XXXX

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisation (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

Product not intended for uses provided for by Dir. 2004/42/CE.

German regulation on the classification of substances hazardous to water (VwVwS 2005).

WGK 2: Hazard to waters

15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

| | |
|--------------------------|--|
| Flam. Liq. 2 | Flammable liquid, category 2 |
| Carc. 2 | Carcinogenicity, category 2 |
| Acute Tox. 1 | Acute toxicity, category 1 |
| Acute Tox. 3 | Acute toxicity, category 3 |
| Acute Tox. 4 | Acute toxicity, category 4 |
| STOT RE 2 | Specific target organ toxicity - repeated exposure, category 2 |
| Eye Irrit. 2 | Eye irritation, category 2 |
| Skin Irrit. 2 | Skin irritation, category 2 |
| STOT SE 3 | Specific target organ toxicity - single exposure, category 3 |
| Resp. Sens. 1 | Respiratory sensitization, category 1 |
| Skin Sens. 1 | Skin sensitization, category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, chronic toxicity, category 2 |
| H225 | Highly flammable liquid and vapour. |
| H351 | Suspected of causing cancer. |
| H330 | Fatal if inhaled. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H319 | Causes serious eye irritation. |
| H315 | Causes skin irritation. |
| H335 | May cause respiratory irritation. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H317 | May cause an allergic skin reaction. |
| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic to aquatic life with long lasting effects. |

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|---------------|---|
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| EUH204 | Contains isocyanates. May produce an allergic reaction. |

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

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|---------------------|---|
| R11 | HIGHLY FLAMMABLE. |
| R20 | HARMFUL BY INHALATION. |
| R23 | TOXIC BY INHALATION. |
| R36 | IRRITATING TO EYES. |
| R36/37/38 | IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN. |
| Carc. Cat. 3 | Carcinogenicity, category 3. |
| R40 | LIMITED EVIDENCE OF A CARCINOGENIC EFFECT. |
| R42/43 | MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT. |
| 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. |
| R66 | REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING. |
| R67 | VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS. |

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments
2. Directive 67/548/EEC and following amendments and adjustments
3. Regulation (EU) 1907/2006 (REACH) of the European Parliament
4. Regulation (EU) 1272/2008 (CLP) of the European Parliament
5. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
6. Regulation (EU) 453/2010 of the European Parliament
7. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
8. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
9. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
10. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
11. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- Niosh - Registry of Toxic Effects of Chemical Substances
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website

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Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

MATERIAL SAFETY DATA SHEET

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