

Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance/preparation

Product name or Trade name :

Sikafloor®-359N Part A

Use of the substance/preparation : Chemical product for construction and industry

Company/undertaking identification

Manufacturer/Distributor : Sika Limited
Watchmead Welwyn Garden City
Hertfordshire. AL7 1BQ
United Kingdom

Telephone no. : 01707 394444

Fax no. : 01707 329129

e-mail address of person responsible for this SDS : EHS@uk.sika.com

Emergency telephone number : +44 (0)1707 363899 (available during office hours).

2. HAZARDS IDENTIFICATION

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : ☒ R10
Xn; R20
Xi; R36/38
R52/53

Physical/chemical hazards : Flammable.

Human health hazards : ☒ Harmful by inhalation. Irritating to eyes and skin.

Environmental hazards : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Additional warning phrases : Contains Pentamethyl piperidylsebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, hexahydromethylphthalic anhydride. May produce an allergic reaction.

See section 11 for more detailed information on health effects and symptoms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical family/Characteristics : Polyol, containing solvent

Ingredient name	CAS number	%	EC number	Classification
<input checked="" type="checkbox"/> xylene	1330-20-7	2.5-10	215-535-7	R10 Xn; R20/21 Xi; R38 [1] [2]
ethylbenzene	100-41-4	2.5-10	202-849-4	F; R11 Xn; R20 [1] [2]
Pentamethyl piperidylsebacate	41556-26-7	0.25-2.5	255-437-1	R43 N; R50/53 [1]
Naphtha (petroleum), hydrodesulfurized heavy	64742-82-1	<2.5	265-185-4	R10 Xn; R65 R66, R67 N; R51/53 [1]
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	82919-37-7	0.1-0.25	280-060-4	R43 N; R50/53 [1]

Date of issue : 09.08.2010.

MSDS no. : 122200

1/7

3. COMPOSITION/INFORMATION ON INGREDIENTS

dibutyltin dichloride	683-18-1	0.025-0.1	211-670-0	Muta. Cat. 3; R68 [1] [2] Repr. Cat. 2; R60, R61 T+; R26 T; R25, R48/25 Xn; R21 C; R34 N; R50/53
See section 16 for the full text of the R-phrases declared above				

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-substance

[4] vPvB-substance

Occupational exposure limits, if available, are listed in section 8.

4. FIRST AID MEASURES

First-aid measures

- Inhalation** : Get medical attention.
- Ingestion** : Do not induce vomiting unless directed to do so by medical personnel. Maintain an open airway. Seek immediate medical attention.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur.
- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

See section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable** : Use dry chemical, CO₂, water spray (fog) or foam.
- Not suitable** : Do not use water jet.
- Special exposure hazards** : Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
- Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
metal oxide/oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

5. FIRE-FIGHTING MEASURES

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Put on appropriate personal protective equipment (see section 8). Evacuate surrounding areas.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material.
- Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment.
- Small spill** : Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment.

7. HANDLING AND STORAGE

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not breathe vapour or mist. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous.
- Storage** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
- Packaging materials**
- Recommended** : Use original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
xylene	EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed through skin. STEL: 441 mg/m ³ 15 minute(s). STEL: 100 ppm 15 minute(s). TWA: 220 mg/m ³ 8 hour(s). TWA: 50 ppm 8 hour(s).
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed through skin. STEL: 552 mg/m ³ 15 minute(s). STEL: 125 ppm 15 minute(s). TWA: 100 ppm 8 hour(s).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA: 441 mg/m³ 8 hour(s).

dibutyltin dichloride

EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed through skin. Notes: as SnSTEL: 0.2 mg/m³, (as Sn) 15 minute(s).TWA: 0.1 mg/m³, (as Sn) 8 hour(s).

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Exposure controls

Occupational exposure controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
organic vapour filter (Type A)
A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Recommended: Butyl rubber/nitrile rubber gloves.

Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Use barrier skin cream.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance

Form : Liquid.

Colour : Various.

Odour : Hydrocarbon.

Important health, safety and environmental information

Flash point : Closed cup: ~33°C (91.4°F)

Explosion limits : Lowest known value:
Lower: 1% (xylene)
Highest known value:
Upper: 7% (xylene)

Vapour pressure : Highest known value: 0.8 kPa (6 mm Hg) (xylene)

Density : ~1.7 g/cm³ [20°C (68°F)]

9. PHYSICAL AND CHEMICAL PROPERTIES

Solubility : Insoluble in the following materials: water

10. STABILITY AND REACTIVITY

Stability : The product is stable.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Materials to avoid : Reactive or incompatible with the following materials:
oxidizing materials

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Potential acute health effects

Inhalation : Harmful by inhalation.

Ingestion : Irritating to mouth, throat and stomach.

Skin contact : Irritating to skin.

Eye contact : Irritating to eyes.

Chronic effects : No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION

Environmental effects : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

European waste catalogue (EWC) : 08 01 11* waste paint and varnish containing organic solvents or other dangerous substances

Packaging : Completely emptied packaging or practically empty packaging containing dried/cured residues, once relieved of all pressure can be disposed of as non-hazardous waste.

Packaging may still contain hazardous residues and disposal should undertaken by a licensed waste contractor.

Any disposal practice must be in compliance with local and national laws and regulations.

15 01 10* packaging containing residues of or contaminated by dangerous substances

14. TRANSPORT INFORMATION

International transport regulations

ADR

UN number : UN1263
 ADR Class : 3
 Classification code : F1
 Packing group : III
 Proper shipping name : Paint
 Label No. : 3
 Exempted according to 2.2.3.1.5 (Viscous substance exemption)

IMDG

UN number : UN1263
 IMDG Class : 3
 Packing group : III
 Proper shipping name : Paint
 Emergency schedules (EmS) : F-E, S-E
 Marine pollutant : No
 Label no. : 3





IATA

UN number : UN1263
 IATA Class : 3
 Packing group : III
 Proper shipping name : Paint
 Label no. : 3


15. REGULATORY INFORMATION

EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Hazard symbol or symbols :  
 Risk phrases :  10- Flammable.
 R20- Harmful by inhalation.
 R36/38- Irritating to eyes and skin.
 R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 Additional warning phrases : Contains Pentamethyl piperidylsebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, hexahydromethylphthalic anhydride. May produce an allergic reaction.
 Restrictions on the Marketing and Use Directive :  Restricted to professional users.
 VOC content (EU) : VOC (w/w): 13.04%


National regulations


Regulatory information :  Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (CHIP 4)
 Control of Substances Hazardous to Health Regulations 2002 (COSHH) (as amended)
 Health & Safety at Work Act 1974
 Dangerous Substances and Explosive Atmospheres Regulations 2002 (DSEAR)
 The Environmental Protection (Duty of Care) Regulations 1991
 Hazardous waste regulations 2005
 The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2007

15. REGULATORY INFORMATION

Guidance Publications : Approved Code of Practice - Management of Health and Safety at Work, HSE
 General Approved Code of Practice to COSHH Regulations, HSE.
 EH40, Workplace Exposure Limits, HSE (as updated).
 HS(G) 53, Respiratory Protection Equipment - a Practical Guide for Users, HSE.

16. OTHER INFORMATION

Full text of classifications referred to in sections 2 and 3 :  11- Highly flammable.
 R10- Flammable.
 R68- Possible risk of irreversible effects.
 R60- May impair fertility.
 R61- May cause harm to the unborn child.
 R26- Also very toxic by inhalation.
 R25- Also toxic if swallowed.
 R48/25- Also toxic: danger of serious damage to health by prolonged exposure if swallowed.
 R20- Also harmful by inhalation.
 R21- Also harmful in contact with skin.
 R20/21- Also harmful by inhalation and in contact with skin.
 R65- Also harmful: may cause lung damage if swallowed.
 R34- Causes burns.
 R38- Irritating to skin.
 R36/38- Irritating to eyes and skin.
 R43- May cause sensitisation by skin contact.
 R66- Repeated exposure may cause skin dryness or cracking.
 R67- Vapours may cause drowsiness and dizziness.
 R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of classifications referred to in sections 2 and 3 :  - Highly flammable
 Muta. Cat. 3 - Mutagen category 3
 Repr. Cat. 2 - Toxic to reproduction category 2
 T+ - Very toxic
 T - Toxic
 C - Corrosive
 Xn - Harmful
 Xi - Irritant
 N - Dangerous for the environment

History

Date of printing : 09.08.2010.
Date of issue : 09.08.2010.
Date of previous issue : 15.02.2010.

 Indicates information that has changed from previously issued version.

Notice to reader

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance/preparation

Product name or Trade name :

Sikafloor®-359 N Part B

Use of the substance/preparation : Chemical product for construction and industry

Company/undertaking identification

Manufacturer/Distributor : Sika Limited
Watchmead Welwyn Garden City
Hertfordshire. AL7 1BQ
United Kingdom

Telephone no. : 01707 394444

Fax no. : 01707 329129

e-mail address of person responsible for this SDS : EHS@uk.sika.com

Emergency telephone number : +44 (0)1707 363899 (available during office hours).

2. HAZARDS IDENTIFICATION

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : R10
Xi; R37
R43, R66, R67
N; R51/53

Physical/chemical hazards : Flammable.

Human health hazards : Irritating to respiratory system. May cause sensitisation by skin contact. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

Environmental hazards : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Additional warning phrases : Contains isocyanates. See information supplied by the manufacturer.

See section 11 for more detailed information on health effects and symptoms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical family/Characteristics : Polyisocyanate, containing solvent

Ingredient name	CAS number	%	EC number	Classification
Isophorondiisocyanate homopolymer	53880-05-0	50-75	500-125-5	R43 [1]
solvent naphtha (petroleum), light arom.	64742-95-6	25-35	265-199-0	R10 [1] Xn; R65 Xi; R37 R66, R67 N; R51/53
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	4098-71-9	<0.5	223-861-6	T; R23 [1] [2] Xi; R36/37/38 R42/43 N; R51/53
See section 16 for the full text of the R-phrases declared above				

Date of issue : 08.09.2010.

MSDS no. : 122178

1/7

3. COMPOSITION/INFORMATION ON INGREDIENTS

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-substance

[4] vPvB-substance

Occupational exposure limits, if available, are listed in section 8.

4. FIRST AID MEASURES

First-aid measures

- | | |
|---------------------|--|
| Inhalation | : If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Get medical attention. Get medical attention if symptoms appear. |
| Ingestion | : Do not induce vomiting unless directed to do so by medical personnel. Maintain an open airway. Seek immediate medical attention. |
| Skin contact | : Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur. |
| Eye contact | : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. |

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

See section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES

Extinguishing media

- | | |
|---|---|
| Suitable | : Use dry chemical, CO ₂ , water spray (fog) or foam. |
| Not suitable | : Do not use water jet. |
| Special exposure hazards | : Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
| Hazardous combustion products | : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides |
| Special protective equipment for fire-fighters | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Put on appropriate personal protective equipment (see section 8). Evacuate surrounding areas.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
- Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment.
- Small spill** : Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment.

7. HANDLING AND STORAGE

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Avoid release to the environment. Refer to special instructions/safety data sheet. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous.
- Storage** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
- Packaging materials**
- Recommended** : Use original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

Ingredient name	Occupational exposure limits
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	EH40/2005 WELs (United Kingdom (UK), 8/2007). Skin sensitiser. Notes: as NCO STEL: 0.07 mg/m ³ , (as NCO) 15 minute(s). TWA: 0.02 mg/m ³ , (as NCO) 8 hour(s).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Exposure controls

Occupational exposure controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
organic vapour filter (Type A)
A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Recommended: Butyl rubber/nitrile rubber gloves.

Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Use barrier skin cream.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance

Form : Liquid.

Colour : Yellowish.

Odour : Hydrocarbon.

Important health, safety and environmental information

Flash point : Closed cup: ~45°C (113°F)

Explosion limits : Lowest known value:
Lower: 0.8% (solvent naphtha (petroleum), light arom.)
Highest known value:
Upper: 7% (solvent naphtha (petroleum), light arom.)

Vapour pressure : Highest known value: 0.5 kPa (3.75 mm Hg) (solvent naphtha (petroleum), light arom.)

Density : ~1.05 g/cm³ [20°C (68°F)]

Solubility : Insoluble in the following materials: water

10. STABILITY AND REACTIVITY

Stability	: The product is stable.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Avoid release to the environment. Refer to special instructions/safety data sheet.
Materials to avoid	: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Potential acute health effects

Inhalation	: Vapours may cause drowsiness and dizziness. Irritating to respiratory system. May cause irritation.
Ingestion	: Can cause gastrointestinal disturbances.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause sensitisation by skin contact.
Eye contact	: May cause eye irritation.
Chronic effects	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

12. ECOLOGICAL INFORMATION

Environmental effects	: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Water polluting material. May be harmful to the environment if released in large quantities.
------------------------------	--

13. DISPOSAL CONSIDERATIONS

Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
European waste catalogue (EWC)	: 08 01 11* waste paint and varnish containing organic solvents or other dangerous substances
Packaging	: Completely emptied packaging or practically empty packaging containing dried/cured residues, once relieved of all pressure can be disposed of as non-hazardous waste. Packaging may still contain hazardous residues and disposal should undertaken by a licensed waste contractor. Any disposal practice must be in compliance with local and national laws and regulations. 15 01 10* packaging containing residues of or contaminated by dangerous substances

14. TRANSPORT INFORMATION

International transport regulations

ADR

UN number : UN1263
 ADR Class : 3
 Classification code : F1
 Packing group : III
 Proper shipping name : Paint
 Contains : Naphtha, solvent
 Label No. : 3

IMDG

UN number : UN1263
 IMDG Class : 3
 Packing group : III
 Proper shipping name : Paint
 Contains : Naphtha, solvent
 Emergency schedules (EmS) : F-E, S-E
 Marine pollutant : P
 Label no. : 3

IATA

UN number : UN1263
 IATA Class : 3
 Packing group : III
 Proper shipping name : Paint
 Contains : Naphtha, solvent
 Label no. : 3

15. REGULATORY INFORMATION


EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Hazard symbol or symbols : Xi, N
 Irritant, Dangerous for the environment
Contains : Isophorondiisocyanate homopolymer
Risk phrases : R10- Flammable.
 R37- Irritating to respiratory system.
 R43- May cause sensitisation by skin contact.
 R66- Repeated exposure may cause skin dryness or cracking.
 R67- Vapours may cause drowsiness and dizziness.
 R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrases : S24- Avoid contact with skin.
 S37- Wear suitable gloves.
Additional warning phrases : Contains isocyanates. See information supplied by the manufacturer.
Restrictions on the Marketing and Use Directive : Restricted to professional users.
VOC content (EU) : VOC (w/w): 30%

National regulations

15. REGULATORY INFORMATION

- Regulatory information** :  Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (CHIP 4)
Control of Substances Hazardous to Health Regulations 2002 (COSHH) (as amended)
Health & Safety at Work Act 1974
Dangerous Substances and Explosive Atmospheres Regulations 2002 (DSEAR)
The Environmental Protection (Duty of Care) Regulations 1991
Hazardous waste regulations 2005
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2007
- Guidance Publications** : Approved Code of Practice - Management of Health and Safety at Work, HSE
General Approved Code of Practice to COSHH Regulations, HSE.
EH40, Workplace Exposure Limits, HSE (as updated).
HS(G) 53, Respiratory Protection Equipment - a Practical Guide for Users, HSE.

16. OTHER INFORMATION

Full text of classifications referred to in sections 2 and 3 : R10- Flammable.
R23- Toxic by inhalation.
R65- Harmful: may cause lung damage if swallowed.
R37- Irritating to respiratory system.
R36/37/38- Irritating to eyes, respiratory system and skin.
R43- May cause sensitisation by skin contact.
R42/43- May cause sensitisation by inhalation and skin contact.
R66- Repeated exposure may cause skin dryness or cracking.
R67- Vapours may cause drowsiness and dizziness.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of classifications referred to in sections 2 and 3 : T - Toxic
Xn - Harmful
Xi - Irritant
N - Dangerous for the environment

History

Date of printing : 08.09.2010.
Date of issue : 08.09.2010.
Date of previous issue : 15.02.2010.

 Indicates information that has changed from previously issued version.

Notice to reader

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.