

EU Classification: F: R11; Xn: R65; Xi: R38; R67; N: R51-53
 EU Nota: 4, 6

Cyclohexane	110-82-7	1 - 5
EU Number: EINECS 203-806-2		
EU Classification: F: R11; Xn: R65; Xi: R38; R67; N: R50-53		
EU Nota: 4, 6		
Butadiene-styrene-meta-divinylbenzene polymer	26471-45-4	1 - 5
Naphtha (petroleum), hydrotreated light	64742-49-0	1 - 5
EU Number: EINECS 265-151-9		
EU Classification: Carc.Cat.2: R45; Xn: R65		
Vendor Classification: F: R11; Xi: R38; N: R51/53; R67		
EU Nota: 4, H, P		
Ethanol	64-17-5	1 - 5
EU Number: EINECS 200-578-6		
EU Classification: F: R11		
Titanium dioxide	13463-67-7	1 - 5
EU Number: EINECS 236-675-5		
Xylene	1330-20-7	1 - 5
EU Number: EINECS 215-535-7		
EU Classification: R10; Xn: R20/21; Xi: R38		
EU Nota: C		
Synthetic amorphous silica, fumed, crystalline free	112945-52-5	< 2

4 FIRST-AID MEASURES

4.1 Eye Contact:

Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

4.2 Skin Contact:

Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and shoes before reuse.

4.3 Inhalation:

Remove person to fresh air. If signs/symptoms develop, get medical attention.

4.4 Ingestion:

Do not induce vomiting. Get immediate medical attention. Give victim two glasses of water. Never give anything by mouth to an unconscious person.

5 FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media:

Use fire extinguishers with class B extinguishing agents (e.g. dry chemical, carbon dioxide).

5.2 Unsuitable Extinguishing Media:

Not specified.

5.3 Exposure Hazards:

Closed containers exposed to heat from fire may build pressure and explode. Vapours may travel long distances along the ground or floor to an ignition source and flash back.

5.4 Combustion Products from Fire:

Not determined.

5.5 Fire-Fighting Procedures:

Water may not effectively extinguish fire; however, it should be

used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Water may be used to blanket the fire. Wear full protective equipment and a self-contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions:

Refer to other sections of this Material Safety Data Sheet for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2 Methods for Cleaning up:

Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools.

Ventilate the area with fresh air.

Evacuate unprotected and untrained personnel from hazard area.

The spill should be cleaned up by qualified personnel.

For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode.

Contain spill.

Cover spill area with a fire-extinguishing foam. An aqueous film forming foam (AFFF) is recommended.

For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry.

Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard.

Collect as much of the spilled material as possible using non-sparking tools.

Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and MSDS.

Collect the resulting residue containing solution.

Place in a metal container approved for transportation by appropriate authorities.

Seal the container.

Dispose of collected material as soon as possible.

7 HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Keep container tightly closed. For industrial or professional use only. Avoid contact with oxidising agents.

- Fire Prevention:

Ground containers securely when transferring contents. Wear low static or properly grounded shoes. Do not spray near flames or sources of ignition.

- Explosion Prevention:

Flammable liquid and vapour. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition.

- Static Prevention:

Avoid static discharge.

7.2 Precautions for Safe Storage:

- Incompatible Materials/Conditions:

- Store away from acids.
- Store away from heat.
- Store out of direct sunlight.
- Store away from oxidising agents.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Recommended Ventilation:

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapour, or spray. If ventilation is not adequate, use respiratory protection equipment.

8.2 Exposure Limits:

Kaolin (1332-58-7)

HSE WEL TWA: 2 mg/m³ (respirable dust)

Limestone (1317-65-3)

HSE WEL TWA: 10 mg/m³ (total inhalable)
4 mg/m³ (respirable)

Toluene (108-88-3)

HSE WEL TWA: 191 mg/m³; 50 ppm (skin)
HSE WEL STEL: 574 mg/m³; 150 ppm (skin)

Cyclohexane (110-82-7)

HSE WEL TWA: 350 mg/m³; 100 ppm
HSE WEL STEL: 1050 mg/m³; 300 ppm
IOELV TWA: 700 mg/m³; 200 ppm

Ethanol (64-17-5)

HSE WEL TWA: 1920 mg/m³; 1000 ppm

Titanium dioxide (13463-67-7)

HSE WEL TWA: 10 mg/m³ (total inhalable)
4 mg/m³ (respirable)

Xylene (1330-20-7)

HSE WEL TWA: 220 mg/m³; 50 ppm (skin)
HSE WEL STEL: 441 mg/m³; 100 ppm (skin)
IOELV TWA: 221 mg/m³; 50 ppm (skin)
IOELV STEL: 442 mg/m³; 100 ppm (skin)

8.3 Exposure Controls:

8.3.1 Eye Protection:

Avoid eye contact with vapours, mists, or spray.
The following should be worn alone or in combination, as appropriate to prevent eye contact: Safety glasses with side shields. Indirect vented goggles.

8.3.2 Hand Protection:

The following glove material(s) are recommended: Polyethylene or ethylene vinyl alcohol. Polyvinyl alcohol. Fluoroelastomer.

8.3.3 Skin Protection:

Avoid skin contact.

8.3.4 Respiratory Protection:

Avoid inhalation of vapours, mists or spray.
Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations: Half facepiece or fullface air-purifying respirator with organic vapour cartridges and P2 particulate prefilters.

8.3.5 Ingestion:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

9 PHYSICAL AND CHEMICAL PROPERTIES

- Appearance and Odour: White syrup with a solvent odour.
- pH: Not determined
- Boiling point/boiling range: 60 - 100 °C
- Melting point/melting range: Not determined
- Flash point: -26 °C
- Autoflammability: Not determined
- Flammable Limits - LEL: Not determined
- Flammable Limits - UEL: Not determined
- Vapour pressure: Not determined
- Water Solubility: Nil
- Specific gravity: 1.6 - 1.8 (Water=1)
- Vapour density: Not determined
- Volatile organic compounds: Not determined
- Evaporation rate: Not determined
- Viscosity: 6000 - 12000 mPa.s
- Percent Volatile: 48 - 53 %

10 STABILITY AND REACTIVITY

10.1 Stability and Reactivity:

Stable. Hazardous polymerisation will not occur.

10.2 Conditions to Avoid:

Heat. Sparks and/or flames.

10.3 Materials to Avoid:

None known.

10.4 Hazardous Decomposition:

Hydrocarbons.
Carbon monoxide.
Carbon dioxide.

11 TOXICOLOGICAL INFORMATION

11.1 Effects from Eye Contact:

- Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

11.2 Effects from Skin Contact:

- May be absorbed through skin and cause target organ effects.
- Moderate Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness.

11.3 Effects from Inhalation:

- May be absorbed following inhalation and cause target organ

effects.

- Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

11.4 Effects from Ingestion:

- May be absorbed following ingestion and cause target organ effects.
- Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhea and vomiting.

11.5 Other Effects and Information:

- Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Prolonged or repeated exposure may cause:

- Central Neuropathy: Signs/symptoms may include irritability, memory impairment, personality changes, sleep disorders, and decreased ability to concentrate.
 - Peripheral Neuropathy: Signs/symptoms may include tingling or numbness of the extremities, incoordination, weakness of the hands and feet, tremors and muscle atrophy.
 - Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.
 - Kidney Effects: Signs/symptoms may include reduced or absent urine production, increased serum creatinine, lower back pain, increased protein in urine, and increased blood urea nitrogen (BUN).
- Carcinogenicity:
This product contains ethanol. In IARC published Monograph No. 44, entitled, 'Alcohol Drinking', the carcinogenicity of ethanol was determined based on chronic exposure to ethanol through human consumption of alcoholic beverages. This is not an expected effect during the foreseeable use of this product.
 - Reproductive Effects:
Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

12 ECOLOGICAL INFORMATION

12.1 Environmental Data:

Not determined.

12.2 Mobility in Soil and Water:

Not determined.

12.3 Persistence/Biodegradability:

Not determined.

12.4 Bioaccumulation Potential:

Not determined.

12.5 Ecotoxicity Data:

Not determined.

12.6 Ecofate Data:

Not determined.

12.7 Special statements for 2001/58/EC:

A conservative assessment indicates this product presents a low environmental risk because use and disposal are unlikely to result in the significant release of components to the

environment.

12.8 Other Effects and Information:

Product usages, or other lifecycle stages, are expected to release volatile organic compounds (VOCs) to the atmosphere. Regulations may restrict the release of VOCs because they contribute to the formation of ozone and smog. Regulatory definitions for VOC vary. Because of smog and other impacts, releases through evaporation or other means should be minimised to the extent possible.

13 DISPOSAL CONSIDERATIONS

13.1 Product as Sold:

Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

13.2 Product in Use:

Not determined.

13.3 Product after Use:

Not determined.

13.4 Product Packaging:

Not determined.

13.5 Potential for Recycling:

Not determined.

13.6 Special Instructions:

Since regulations vary, consult applicable regulations or authorities before disposal.

14 TRANSPORT INFORMATION

- UN number: UN1139
- IMO Class: 3
- IMO Packing Group: II
- IMO Proper Shipping Name: Coating solution
- ADR Class: 3
- ADR Classification: F1
- ADR Packing Group: II
- ADR Proper Shipping Name: Coating solution
- IATA Class: 3
- IATA Packing Group: II
- IATA Proper Shipping Name: Coating solution

15 REGULATORY INFORMATION

Label Version Number:
06.00

Symbol(s):

Xn Harmful.
F Highly flammable.
N Dangerous to environment.

Risk Phrases:

R11 Highly flammable.
R48/20 Harmful: Danger of serious damage to health by prolonged exposure through inhalation.
R67 Vapours may cause drowsiness and dizziness.
R38 Irritating to skin.
R63 Possible risk of harm to the unborn child.
R51/53 Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S16 Keep away from sources of ignition - No Smoking.
S23C Do not breathe vapour or spray.
S51 Use only in well ventilated areas.
S24/25 Avoid contact with the skin and eyes.
S36/37 Wear suitable protective clothing and gloves.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28B After contact with skin, wash immediately with plenty of water.
S62 If swallowed, do not induce vomiting: Seek medical advice immediately and show this container or label.
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.
S29 Do not empty into drains.
S2 Keep out of the reach of children.

Disclosable Ingredients:

Toluene;
Heptane and isomers;
Octane and isomers;
Methylcyclohexane;
Cyclohexane;
Naphtha (petroleum), hydrotreated light.

16 OTHER INFORMATION

16.1 Complete list of risk phrases:

R10 Flammable.
R11 Highly flammable.
R20 Harmful by inhalation.
R21 Harmful in contact with skin.
R38 Irritating to skin.
R45 May cause cancer.
R48 Danger of serious damage to health by prolonged exposure through inhalation.
R50 Very toxic to aquatic organisms.
R51 Toxic to aquatic organisms.
R53 May cause long-term adverse effects in the aquatic environment.
R63 Possible risk of harm to the unborn child.
R65 Harmful: May cause lung damage if swallowed.
R67 Vapours may cause drowsiness and dizziness.

16.2 Limitations on Use of Product:

For industrial or professional use only.

16.3 Reissue date/Reason for reissue:

Complete MSDS revision in accordance with EU directive 2001/58/EC.

16.4 Regulatory Information:

The following UK Regulations as amended may affect the product as supplied:
The Chemicals (Hazard Information and Packaging for supply) Regulations, as amended;
The Carriage of Dangerous Goods (Classification, Packaging and Labelling) and use of Transportable Pressure Receptacles Regulations 1996, as amended;
The Control of Substances Hazardous to Health Regulations 1999 as amended;
The Special Waste Regulations 1996, as amended;
The Environmental Protection Act, 1990, as amended;
The Health and Safety at Work Act, 1974, as amended.

The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.