

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 or preparation

Product name or Trade name :

Sika Activator

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 :

2. HAZARDS IDENTIFICATION

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

Classification : F; R11
Xn; R65
Xi; R38
R43, R67
N; R50/53

Physical/chemical hazards : Highly flammable.

Human health hazards : Harmful; may cause lung damage if swallowed. Irritating to skin. May cause sensitisation by skin contact. Vapours may cause drowsiness and dizziness.

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

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical family/ Characteristics : Bonding agent, containing solvent

Ingredient name	CAS number	%	EC number	Classification
methylcyclohexane	108-87-2	35-50	203-624-3	F; R11 Xn; R65 Xi; R38 R67 N; R51/53 [1] [2]
heptane (and isomers)	142-82-5	25-35	205-563-8	F; R11 Xn; R65 Xi; R38 R67 N; R50/53 [1] [2]
Naphtha (petroleum), hydrotreated light	64742-49-0	10-15	265-151-9	F; R11 Xn; R65 Xi; R38 [1]

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Ethanol	64-17-5	5-10	200-578-6	R67 N; R51/53	
N-(3-(trimethoxysilyl)propyl)ethylenediamine	1760-24-3	1-5	217-164-6	F; R11 Xi; R41	[2] [1]
Tris(dodecylbenzenesulphonato-O)(propan-2-olato)titanium	61417-55-8	1-3	262-777-4	R43 Xn; R22	[1]
cyclohexane	110-82-7	1-2.5	203-806-2	Xi; R36/37/38 F; R11 Xn; R65 Xi; R38 R67 N; R50/53	[1] [2]
See section 16 for the full text of the R-phrases declared above					

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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 if adverse health effects persist or are severe. Get medical attention if symptoms appear.
- Ingestion** : Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. Maintain an open airway. Seek immediate medical attention.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing or wear gloves. Continue to rinse for at least 10 minutes. Obtain 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** : Highly 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.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon oxides
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.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt 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 spilt 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. Wash spillages into an effluent treatment plant or proceed as follows. 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. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. 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>
heptane (and isomers)	EH40-WEL (United Kingdom (UK), 9/2006). WEL 8 hrs limit: 500 ppm 8 hour(s).
Ethanol	EH40-WEL (United Kingdom (UK), 9/2006). WEL 8 hrs limit: 1920 mg/m ³ 8 hour(s). WEL 8 hrs limit: 1000 ppm 8 hour(s).
cyclohexane	EH40-WEL (United Kingdom (UK), 9/2006). WEL 15 min limit: 1050 mg/m ³ 15 minute(s). WEL 15 min limit: 300 ppm 15 minute(s). WEL 8 hrs limit: 350 mg/m ³ 8 hour(s).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

WEL 8 hrs limit: 100 ppm 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** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. 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.
- 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** : Colourless to light yellow.
- Odour** : Hydrocarbon.

Important health, safety and environmental information

- Boiling point** : 78°C (172.4°F)
- Flash point** : Closed cup: ~-4°C (24.8°F)
- Explosion limits** : Lowest known value:
Lower: 1% (methylcyclohexane)
Upper: 7% (methylcyclohexane)
- Vapour pressure** : Highest known value: 7.6 kPa (57 mm Hg) (ethanol)
- Density** : ~0.71 g/cm³ [20°C (68°F)]
- Viscosity** : Kinematic (40°C): <0.069 cm²/s (<6.9 cSt)

10. STABILITY AND REACTIVITY

- Stability** : The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.
- 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. Do not swallow.
- Materials to avoid** : Highly 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. May cause irritation.
- Ingestion** : Aspiration hazard if swallowed. Can enter lungs and cause damage. Irritating to mouth, throat and stomach.
- Skin contact** : Irritating to skin. 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.

12. ECOLOGICAL INFORMATION

- Environmental effects** : Very toxic 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. 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.

14. TRANSPORT INFORMATION

International transport regulations

ADR

- UN number** : UN1866
- ADR Class** : 3
- Classification code** : F1
- Packing group** : II

14. TRANSPORT INFORMATION

Proper shipping name : Resin solution
 Label No. : 3

IMDG

UN number : UN1866
 IMDG Class : 3
 Packing group : II
 Proper shipping name : Resin solution
 Emergency schedules (EmS) : F-E, S-E
 Marine pollutant : No.
 Label no. : 3

IATA

UN number : UN1866
 IATA Class : 3
 Packing group : II
 Proper shipping name : Resin solution
 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 : F, Xn, N
 Highly flammable, Harmful, Dangerous for the environment

Contains : N-(3-(trimethoxysilyl)propyl)ethylenediamine

Risk phrases : R11- Highly flammable.
 R65- Harmful: may cause lung damage if swallowed.
 R38- Irritating to skin.
 R43- May cause sensitisation by skin contact.
 R67- Vapours may cause drowsiness and dizziness.
 R50/53- Very 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.

VOC content (EU) : VOC (w/w): 94.1%

National regulations

Regulatory information : Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (CHIP 3)
 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 (Amendment) Regulations 2005

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.

15. REGULATORY INFORMATION

16. OTHER INFORMATION

Full text of classifications referred to in sections 2 and 3 : R11- Highly flammable.
R22- Harmful if swallowed.
R65- Harmful: may cause lung damage if swallowed.
R41- Risk of serious damage to eyes.
R38- Irritating to skin.
R36/37/38- Irritating to eyes, respiratory system and skin.
R43- May cause sensitisation by skin contact.
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.

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

History

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▣ 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 Technical Data Sheet prior to any use and processing.