

**SAFETY DATA SHEET** according to 91/155/EEC

Tradename:

**ISOFOLAN-ADHESIVE**Date: 09.09.2008  
Page: 1 of 9**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY****1.1 Trade name:** ISOFOLAN-ADHESIVE**1.2 Manufacturer:** SCHEU-DENTAL GmbH  
Am Burgberg 20  
58642 Iserlohn  
Germany**1.3 Info Telephone No.:** +49/2374/9288-0**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient name and classification	CAS number	Percentage
HYDROTREATED LIGHT NAPHTHA	64742-49-0	50 - 60
EU Hazard Symbols and Risk Phrases: EU - Adaptation 22 (T; R:Carc.Cat.2;45-65) EU - Additional Vendor Classification (F,Xi, N; R:11-38-51/53-67)		
HEPTANE	142-82-5	7 - 14
EU Hazard Symbols and Risk Phrases: EU-Adaptation 25 (F,N,Xi, Xn; R:11-38-50/53-65-67)		
STYRENE-BUTADIENE TERPOLYMER	26471-45-4	7 - 14
HYDROCARBON RESIN	---	3 - 10
HEXANE ISOMERS	---	5 - 9
ROSIN OLIGOMERS	65997-05-9	5 - 9
CYCLOHEXANE	110-82-7	2 - 5
EU Hazard Symbols and Risk Phrases: EU - Adaptation 29 (F,Xi, N,Xn; R:11-38-50/53-65-67)		
EINECS No: 2038062		
METHYLCYCLOHEXANE	108-87-2	1 - 3
EU Hazard Symbols and Risk Phrases: EU-Adaptation 25 (F,N,Xi, Xn; R:11-38-51/53-65-67)		
CYCLOPENTANE	287-92-3	1 - 2
EU Hazard Symbols and Risk Phrases: EU-Adaptation 24 (F; R:11-52/53)		
CALCIUM CARBONATE	1317-65-3	0 - 1

**3. HAZARDS IDENTIFICATION**

Critical hazards:

Highly flammable. Irritant. Dangerous to environment.  
Irritating to skin. Vapours may cause drowsiness and  
dizziness. Toxic to aquatic organisms. May cause long-term  
adverse effects in the aquatic environment.

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**4. FIRST-AID MEASURES**

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## Eye Contact:

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

## 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.

## Inhalation:

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

## Ingestion:

Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

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**5. FIRE-FIGHTING MEASURES**

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## Suitable Extinguishing Media:

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

## 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.

## Hazardous Decomposition:

Aldehydes During Combustion. Hydrocarbons - During Combustion. Carbon monoxide - During Combustion. Carbon dioxide - during combustion. Ketones - During Combustion

## 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. Wear full protective equipment and a self-contained breathing apparatus

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**6. ACCIDENTAL RELEASE MEASURES**

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## 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.

## Methods for Cleaning up:

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. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. 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. 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. Dispose of collected material as soon as possible.

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**7. HANDLING AND STORAGE**

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## Incompatible Materials/Conditions:

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

## Fire Prevention:

Ground containers securely when transferring contents. Wear low static or properly grounded shoes. No smoking while handling this material. 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.

## Precautions for Safe Handling:

Keep container tightly closed. Avoid contact with oxidising agents.

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## 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: Indirect vented goggles.

## Hand Protection:

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

## Skin Protection:

Avoid skin contact.

## 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 air-purifying respirator with organic vapour/acid gas cartridges and particulate prefilters. Half facepiece air-purifying respirator with organic vapour/acid gas cartridges and particulate prefilters. Half facepiece air-purifying respirator with organic vapour/acid gas cartridges and particulate prefilters.

## Ingestion:

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

## Recommended Ventilation:

Use with appropriate local exhaust 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.

## Exposure Limits:

## HEPTANE (142-82-5)

HSE WEL TWA: 500 ppm

## CYCLOHEXANE (110-82-7)

HSE WEL TWA: 100 ppm; 350 mg/m<sup>3</sup>

HSE WEL STEL: 300 ppm; 1050 mg/m<sup>3</sup>

## METHYLCYCLOHEXANE (108-87-2)

HSE WEL TWA: 400 ppm; 1600 mg/m<sup>3</sup> OES

HSE WEL STEL: 500 ppm; 2000 mg/m<sup>3</sup> OES

## CYCLOPENTANE (287-92-3)

HSE WEL TWA: 600 ppm; 1800 mg/m<sup>3</sup> OES

HSE WEL STEL: 750 ppm; 2250 mg/m<sup>3</sup> OES

## CALCIUM CARBONATE (1317-65-3)

HSE WEL TWA: 10 mg/m<sup>3</sup> inhalable dust; 4 mg/m<sup>3</sup> Respirable dust

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Appearance and Odour:	Yellow fluid liquid.
pH:	Not applicable
Boiling point/boiling range:	Not applicable
Melting point/melting range:	Not determined
Flash point:	< -24 C TCC
Autoflammability:	Not determined
Vapour pressure:	Not determined
Water Solubility:	Not applicable
Specific gravity:	0.78 - 0.82 water=1
Vapour density:	Not determined
Volatile organic compounds:	Not determined
Evaporation rate:	Not determined
Viscosity:	750 - 3500 MPAS
Percent Volatile:	60 - 70%

**10. STABILITY UND REACTIVITY**

Conditions to Avoid:  
Sparks, open flame including pilot lights

Materials to Avoid:  
Heat.

Stability and Reactivity:  
Stable. Hazardous polymerisation will not occur.

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## Effects from Eye Contact:

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

## 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.

## Effects from Inhalation:

May be absorbed following inhalation and cause target organ effects. Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

## Effects from Ingestion:

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

## Reproductive Effects:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

## 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: Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice. Peripheral Neuropathy: Signs/symptoms may include tingling or numbness of the extremities, incoordination, weakness of the hands and feet, tremors and muscle atrophy. Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

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**12 ECOLOGICAL INFORMATION**

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## Ecotoxicity Data:

Not determined.

## Ecofate Data:

Not determined.

## Special statements for 2001/58/EC:

One or more components of this product have significant known or predicted environmental hazards, but a conservative assessment indicates a low environmental risk. Intended use and proper disposal are unlikely to cause the environmentally hazardous component(s) to enter the environment in quantities or by routes that could cause the adverse environmental impacts.

## Other Effects and Information:

Take precautions to prevent direct release of this product to the environment. 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.

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**13 DISPOSAL CONSIDERATIONS**

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## Product as Sold:

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

## Special Instructions:

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

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## UN NUMBER:

UN number: UN1133

## UK ROAD/SEA FREIGHT (IMO) CLASSIFICATION:

Substance Identification Number: UN1133

Class: 3.0

Packing Group: II

Proper Shipping Name: Adhesives

## ADR/RID CLASSIFICATION:

Class: 3.0

ADR classification: F 1

## ICAO/IATA CLASSIFICATION:

Class: 3.0

Sub-Risk: Not applicable

Packing Group: II

Proper Shipping Name: Adhesives

**15 REGULATORY INFORMATION**

## Disclosable Ingredients:

HYDROTREATED LIGHT NAPHTHA; HEPTANE; CYCLOHEXANE.

## Symbol(s):

(F) Flame (Highly Flammable). (Xi) St. Andrew's Cross  
(Irritant). (N) Dangerous to environment.

## Risk Phrases:

(R11) Highly Flammable. (R38) Irritating to skin. (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:

Keep away from sources of ignition - No Smoking. Use only in  
well ventilated areas. Do not breathe vapour or spray. Avoid  
contact with the skin and eyes. In case of contact with eyes,  
rinse immediately with plenty of water and seek medical  
advice. After contact with skin, wash immediately with plenty  
of water. If swallowed, do not induce vomiting: Seek medical  
advice immediately and show this container or label. Avoid  
release to the environment. Refer to special  
instructions/safety data sheets.



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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. Carriage of Dangerous Goods by Road 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 The Health and Safety at Work Act, 1974.

Reissue date/Reason for reissue.

Brand name change from Scotch-Grip to Scotch-Weld.

Intended Use of Product:

A solvent-based industrial adhesive for use on foams and lightweight materials.

The information on this 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 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.