



SAFETY DATA SHEET CHEMOSIL 511

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

PRODUCT NAME CHEMOSIL 511
PRODUCT NO. 3016580, 3016582
APPLICATION For industrial and professional use only. Elastomer bonding agent.
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2 HAZARDS IDENTIFICATION

Highly flammable. Irritating to eyes and skin.

CLASSIFICATION Xi;R36/38. F;R11.

PHYSICAL AND CHEMICAL HAZARDS

Solvents contained in the product evaporate during processing and their vapours can form explosive/highly inflammable air/vapour mixtures.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
3-AMINOPROPYLTRIEHOXYSILANE	213-048-4	919-30-2	5-10%	C;R34 Xn;R22
BUTANONE	201-159-0	78-93-3	< 3%	F;R11 Xi;R36 R66 R67
ETHANOL	200-578-6	64-17-5	60-100%	F;R11
TRIEHOXYVINYL SILANE		78-08-0	1-5%	Xi;R36/37/38. R10.

The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

GENERAL INFORMATION

Remove affected person from source of contamination. Place unconscious person on the side in the recovery position and ensure breathing can take place. Get medical attention if any discomfort continues.

INHALATION

Move the exposed person to fresh air at once. If respiratory problems, artificial respiration/oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION

Immediately rinse mouth and drink plenty of water (200-300 ml). DO NOT induce vomiting. Get medical attention immediately. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

SKIN CONTACT

Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Immediately rinse with water for several minutes. Hold eyelids apart. Consult a physician for specific advice.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Fire can be extinguished using: Foam. Dry chemicals, sand, dolomite etc. Carbon dioxide (CO2). Water fog.

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UNUSUAL FIRE & EXPLOSION HAZARDS

Risk of explosion in closed containers if pressure rises rapidly. Vapours are heavier than air and may spread near ground to sources of ignition. May travel considerable distance to source of ignition and flash back.

SPECIFIC HAZARDS

The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures. Fire or high temperatures create: Carbon monoxide (CO). Carbon dioxide (CO₂).

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet.

ENVIRONMENTAL PRECAUTIONS

Do not discharge into drains, water courses or onto the ground.

SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Clean-up personnel should use respiratory and/or liquid contact protection. Collect with absorbent, non-combustible material into suitable containers.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Static electricity and formation of sparks must be prevented. Keep away from heat, sparks and open flame. Use explosion proof electric equipment. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
BUTANONE	WEL	200 ppm(Sk)	600 mg/m ³ (Sk)	300 ppm(Sk)	899 mg/m ³ (Sk)	
ETHANOL	WEL	1000 ppm	1920 mg/m ³			

WEL = Workplace Exposure Limit.

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Explosion-proof general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit. In case of inadequate ventilation or when the product is heated, use suitable respiratory equipment with gas filter (type A2).

HAND PROTECTION

Use protective gloves made of: Butyl rubber. Polyvinyl alcohol (PVA). Viton rubber (fluor rubber). The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Use approved safety glasses with side shields. If risk of splashing, wear safety goggles or face shield.

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OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	Colourless		
ODOUR	Odour of alcohol		
SOLUBILITY	Miscible with water.		
RELATIVE DENSITY	0.83 - 0.85 @ 20°C	VISCOSITY	< 20 mPas @ 25°C
FLASH POINT (°C)	14 CC (Closed cup).	FLAMMABILITY LIMIT - LOWER(%)	3.5
FLAMMABILITY LIMIT - UPPER(%)	15		

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

MATERIALS TO AVOID

None if used for intended purposes.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire or high temperatures create: Oxides of: Carbon. Hydrogen chloride (HCl).

11 TOXICOLOGICAL INFORMATION

GENERAL INFORMATION

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems. The present product is a chemical preparation within the meaning of the REACh Regulation 1907/2006/EC. To avoid testing the product in animal experiments the evaluation is made based on toxicological data and content by weight of the individual ingredients according to 1999/45/EC or analagous evaluations of comparable products.

SKIN CONTACT

Irritating to skin.

EYE CONTACT

Irritating to eyes.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Do not empty into drains, soil or bodies of water.

WATER HAZARD CLASSIFICATION

WGK 1 (VwVwS 17 May 1999 Annex 4)

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

The valid EEC waste code numbers are not product-related but are largely source-related. The manufacturer is therefore unable to specify EEC waste codes for the articles or products used in the various sectors. These can be requested from the manufacturer.

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

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UK ROAD CLASS	3		
PROPER SHIPPING NAME	ADHESIVES		
UN NO. ROAD	1133	UK ROAD PACK GR.	II
ADR CLASS NO.	3	ADR CLASS	Class 3: Flammable liquids.
ADR PACK GROUP	II	TUNNEL RESTRICTION CODE	(D/E)
HAZARD No. (ADR)	33	ADR LABEL NO.	3
HAZCHEM CODE	•3YE	CEFIC TEC(R) NO.	30GF1-I+II, 30GF1-sp
RID CLASS NO.	3	RID PACK GROUP	II
UN NO. SEA	1133	IMDG CLASS	3
IMDG PACK GR.	II	EMS	F-E, S-D
UN NO. AIR	1133	AIR CLASS	3
AIR PACK GR.	II		

15 REGULATORY INFORMATION

LABELLING



Irritant



Highly Flammable

RISK PHRASES

R11	Highly flammable.
R36/38	Irritating to eyes and skin.

SAFETY PHRASES

S7/9	Keep container tightly closed and in a well-ventilated place.
S16	Keep away from sources of ignition - No smoking.

EU DIRECTIVES

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC.

16 OTHER INFORMATION

INFORMATION SOURCES

Safety Data Sheets, Misc. manufacturers.

ISSUED BY

EU Regulatory Compliance Specialist (Product Safety).

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SDS NO. 13139

DATE 05.02.2010

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RISK PHRASES IN FULL

R10	Flammable.
R11	Highly flammable.
R22	Harmful if swallowed.
R34	Causes burns.
R36	Irritating to eyes.
R36/37/38	Irritating to eyes, respiratory system and skin.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.