

Trade name: WT-HSEA-27C, 135C; WT-MPEA-27C, 135C EU
 Product no.: WES-002 Version: 2.0.0 / GB

Status: 01.09.2008
 Date of printing: 01.09.2008

1.) Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Trade name

**WT-HSEA-27C, 135C; WT-MPEA-27C, 135C EU
 (canisters & cans)**

Use of the substance/preparation
 industrial adhesive

Company/undertaking identification

Address

Westech Aerosol GmbH
 Meisenrain 6
 79618 Rheinfelden
 Telephone no. +49 (0)7623 - 909023
 +49 (0)7623 - 909056

Information provided by / telephone

+49 (0)7623 - 909023

Emergency telephone

+49(0)551 / 19240 {Giftinformationszentrum Nord (GIZ-Nord)} (Service in english)

Advice on Safety Data Sheet

sdb_info@umco.de

2.) Hazards identification

Classification

F; R11	Highly flammable
Xn; R65	Harmful: may cause lung damage if swallowed.
Xi; R36/38	Irritating to eyes and skin.
N; R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.
R66	Repeated exposure may cause skin dryness or cracking.

Hazard symbols

F	Highly flammable
Xn	Harmful
N	Dangerous for the environment

R phrases

11	Highly flammable.
36/38	Irritating to eyes and skin.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

3.) Composition / information on ingredients

Chemical characterization

Mixture (preparation)

Hazardous ingredients

cyclohexane

EC no.	203-806-2	Index no.	601-017-00-1	CAS no.	110-82-7
Concentration	>= 10	<= 20	%-b.w.		
Classification	F; R11-Xn; R65-Xi; R38-N; R50/53-R67				
Hazard symbols	F, Xn, N	R phrases	11-38-50/53-65-67		

acetone

EC no.	200-662-2	Index no.	606-001-00-8	CAS no.	67-64-1
Concentration	>= 30	<= 40	%-b.w.		
Classification	F; R11-Xi; R36-R66-R67				
Hazard symbols	F, Xi	R phrases	11-36-66-67		

Petroleum gas, Petroleum gases, liquefied, sweetened

EC no.	270-705-8	Index no.	649-203-00-1	CAS no.	68476-86-8
Concentration	>= 5	<= 25	%-b.w.		
Classification	E; R2 F+; R12 Xi; R37/38 R67 R44 R16				
Hazard symbols	E, Xi	R phrases	2-12-16-37/38-44-67		

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4.) First aid measures

General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Summon a doctor immediately.

After skin contact

Wash immediately with plenty of water for several minutes. Don't use solvents. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an ophthalmologist.

After ingestion

Do not induce vomiting - aspiration hazard. Summon a doctor immediately. Drink water in small gulps. Never give anything by mouth to an unconscious person.

Advice to doctor

Hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

5.) Fire-fighting measures

Suitable extinguishing media

Alcohol-resistant foam; extinguishing powder; Carbon dioxide

Extinguishing media that must not be used for safety reasons

Full water jet

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In the event of fire, the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Fire gas of organic material has to be classed invariably as respiratory poison.

Special protective equipment for fire-fighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Wear protective clothing.

Other information

Cool endangered containers with water spray jet. Suppress gases/vapours/mists with water spray jet.

6.) Accidental release measures

Personal precautions

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away sources of ignition.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

Methods for cleaning up/taking up

Pick up with absorbent material (e.g., sand, sawdust, general-purpose binder). Send in suitable containers for recovery or disposal.

7.) Handling and storage

Handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far as possible by the state of the art.

Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition. Use explosion-proof equipment/fittings and non-sparking tools.

Storage

Requirements for storage rooms and vessels

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

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Advice on storage assembly

Do not store together with:

Acids

Bases

Reducing agents

Oxidizing agents

Do not store together with foodstuffs.

Further information on storage conditions

Keep container tightly closed in a cool, well-ventilated place. Protect from heat and direct sunlight.

Recommended storage temperature

Value < 49 °C

8.) Exposure controls / personal protection

Exposure limit values

cyclohexane

CAS no. 110-82-7
 EC no. 203-806-2

Occupational Exposure Standards (OESs) / EH40

Cyclohexane				
TWA	350	mg/m ³	100	ml/m ³
STEL	1050	mg/m ³	300	ml/m ³

2006/15/EG

Cyclohexan				
TWA	700	mg/m ³	200	ml/m ³

acetone

CAS no. 67-64-1
 EC no. 200-662-2

2000/39/EWG

Acetone				
TWA	1210	mg/m ³	500	ml/m ³

Occupational Exposure Standards (OESs) / EH40

Acetone				
TWA	1810	mg/m ³	500	ml/m ³
STEL	3620	mg/m ³	1500	ml/m ³

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. Breathing apparatus: gas filter A, code colour: brown

Hand protection

In case of intensive contact, wear protective gloves (EN 374). Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	nitrile		
Material thickness	>	0,3	mm
Breakthrough time	>	480	min.

Eye protection

Safety glasses with side protection shield (EN 166)

Skin protection

protective overalls, antistatic

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale vapours. Wash hands before breaks and after work. Have eye wash fountain available. Have emergency shower available.

9.) Physical and chemical properties

General information

Form	liquid
Colour	clear; red
Odour	solvent-like

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Important health, safety and environmental information

Changes in physical state

Type	Boiling point	
Value	68	°C

Flash point

Value	-18	°C
Method	Pensky-Martens closed cup	

Explosion limits

Upper explosion limit	13	% vol
Lower explosion limit	1,3	% vol

Vapour pressure

Value	appr. 130	mm Hg
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Density

Value	0,78
Remarks	H2O = 1

Solubility in water

Remarks	insoluble
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10.) Stability and reactivity

Conditions to avoid

Heat; Keep away sources of ignition.

Materials to avoid

Acids; Bases; Reducing agents; Oxidizing agents

Hazardous decomposition products

Carbon monoxide; Acetic acid; Sulphurous oxides (SOx); Nitrous oxides (NOx); Hydrocarbons

11.) Toxicological information

Acute toxicity

Acute oral toxicity

LD50	5800	mg/kg
Species	rat	
Reference substance	Acetone	
Source	RTECS	

Acute dermal toxicity

LD50	20000	mg/kg
Species	rabbit	
Reference substance	Acetone	
Source	IUCLID	

Acute inhalational toxicity

LC50	76	mg/l
Reference substance	Acetone	
Species	rat	
Source	Literature value	

Effects after repeated or prolonged exposition (subacute, subchronic, chronic)

Mutagenicity

Remarks No experimental information on genotoxicity available.

Reproduction toxicity

Remarks No experimental information on reproduction toxic effects available.

Carcinogenicity

Remarks No experimental information on carcinogenic effects available.

Experience in practice

Inhalation of vapours may lead to headache, drowsiness and dizziness.

Inhalation of vapours in higher concentration may lead to irritation of eyes, nose and respiratory tract.

Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin.

Eye contact with the product may lead to irritation.

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

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12.) Ecological information

Ecotoxicity

Fish toxicity

LC50	5540		mg/l
Species	Oncorhynchus mykiss		
Duration of exposure	96	h	
Source	Literature value		
Reference substance	Acetone		

Daphnia toxicity

EC50	6100		mg/l
Species	Daphnia magna		
Duration of exposure	48	h	
Source	Literature value		
Reference substance	Acetone		

Other adverse effects

Do not allow to enter soil, waterways or waste water canal.

13.) Disposal considerations

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

14.) Transport information

Land transport ADR/RID

Class	2	Classification code	2F
Packaging group	-		
Hazard id. no.	23		
Label	2.1		
UN number	3161		
Technical name	Liquefied gas, flammable, n.o.s.		
Special Provision 640	-		
Danger releasing substance	cyclohexane acetone		
Remarks	Canisters		
Class	2	Classification code	5F
Packaging group	-		
Label	2.1		
UN number	1950		
Technical name	Aerosols, flammable		
Special Provision 640	-		
Danger releasing substance	cyclohexane acetone		
Remarks	Cans		

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Marine transport IMDG

Class	2.1
Packaging group	-
UN number	3161
Proper shipping name	Liquefied gas, flammable, n.o.s.
Danger releasing substance	cyclohexane acetone
EmS	F-D,S-U
MARPOL	-
Label	2.1
Remarks	Canisters
Class	2
Subsidiary-hazard	See SP63
Packaging group	-
UN number	1950
Proper shipping name	Aerosols, flammable
Danger releasing substance	cyclohexane acetone
EmS	F-D,S-U
MARPOL	-
Label	2.1
Remarks	Cans

Air transport ICAO/IATA

Class	2.1
UN number	3161
Proper shipping name	Liquefied gas, flammable, n.o.s.
Danger releasing substance	cyclohexane acetone
Label	2.1
Remarks	Canisters
Class	2.1
UN number	1950
Proper shipping name	Aerosols, flammable
Danger releasing substance	cyclohexane acetone
Label	2.1
Remarks	Cans

15.) Regulatory information

Labelling in accordance with EC directives

The product is classified and labelled in accordance with EC Directive 1999/45/EC.

Hazard symbols

F	Highly flammable
Xn	Harmful
N	Dangerous for the environment

R phrases

11	Highly flammable.
36/38	Irritating to eyes and skin.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

S phrases

9	Keep container in a well-ventilated place.
16	Keep away from sources of ignition --- No smoking.
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37	Wear suitable protective clothing and gloves.
61	Avoid release to the environment. Refer to special instructions / Safety data sheets.
62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Remarks	Annex I No. 7b
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16.) Other information

Sources of key data used to compile the data sheet:

EC Directive 67/548/EC resp. 99/45/EC as amended in each case.
Regulation (EC) No 1907/2006 (REACH) as amended in each case.
EC Directives 2000/39/EC, 2006/15/EC as amended in each case.
National Threshold Limit Values of the corresponding countries as amended in each case.
Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.
The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Relevant R-phrases (chapter 3):

11	Highly flammable.
12	Extremely flammable
16	Explosive when mixed with oxidizing substances.
2	Risk of explosion by shock, friction, fire or other sources of ignition.
36	Irritating to eyes.
37/38	Irritating to respiratory system and skin.
38	Irritating to skin.
44	Risk of explosion if heated under confinement.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

Department issuing safety data sheet

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This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.