SAFETY DATA SHEET (according to 1907/2006/EC, Article 31)

DIFFU - THERM® Cleaner BRE - S (Cans)



1. Identification of the substance/mixture and of the company/undertaking:

Product identifier

Trade name: Cleaner Article number: BRE - S

Relevant identified uses of the substance or mixture and uses advised against

Application of the substance / the preparation

As Cleaner at the penetration process by colours acc. to EN ISO 3452-1

[EN 571-1] (DIN 54 152 part 1) for finding surface cracks.

Details of the supplier of the safety data sheet

Manufacturer/Supplier

Helmut Klumpf

Technische Chemie KG

Industriestr. 15

D - 45699 Herten Phone.: +49(0)2366 1003 - 0 Fax: +49(0)2366 1003 - 11 Email: klumpf@diffu-therm.de

Emergency telephone number: a.m. or next Emergency phone:

2. Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour

GHS07 exclamation mark

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE. 3 H336 Nay cause drowsiness or dizziness.

Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labeled according to the CLP regulation.





Hazard pictograms GHS02, GHS07

Signal word Danger

Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

Results of PBT and PvB assessment

PBT: Not applicable, vPvB: Not applicable

3. Composition/information on ingredients

Chemical characterization: Mixtures

Components:	Components: Name of chemical	
CAS: 67-64-1	acetone	100
EINECS: 200-662-2	GHS02 Flam. Liq. 2, H225; GHS07 Eye Irrit. 2, H319; STOT SE 3, H336	100

4. First aid measures

Description of first aid measures

General information Take affected persons out of danger area and instruct to lie down.

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient worm. Consult doctor if symptoms persist. In case of unconsciousness bring patient into stabile side position for transport.

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After skin contact

Instantly wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

After swallowing

Do not induce vomiting; instantly call for medical help. In case of persistent symptoms consult doctor

5. Fire fighting measures

Description of first aid measures

Suitable extinguishing agents

water haze, water spray-jet, alcohol resistant foam.

use dry extinguishers like power, sand just for small fires.

For safety reasons unsuitable extinguishing agents Water with a full water jet.

Special hazards arising from the substance or mixture Carbon monoxide (CO)

Advice for fighters

Protective equipment: Wear self-contained breathing apparatus.

Additional information Cool endangered containers with water spray jet.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

Ensure adequate ventilation. Avoid contact with eyes and skin.

Prevent material from reaching sewage system, holes and cellars.

Environmental precautions:

Prevent from spreading (e.g. by damming-in or oil barriers).

No special measures required.

Prevent material from reaching sewage system, holes and cellars.

Inform respective authorities in case product reaches water or sewage system.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Reference to other sections

See Section 8 for information on personal protection equipment.

7. Handling and storage

Handling:

Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Avoid splashes or spry in enclosed areas.

Ensure good interior ventilation, especially at floor level. (Fumes are heaver than air)

Avoid contact with eyes and skin. Avoid open fire.

Store in cool, dry place in tightly closed containers.

Keep away from heat and direct sunlight.

Information about protection against explosions and fires:

Keep ignition sources away – Do not smoke.

Protect against electrostatic charges.

Use explosion-proof apparatus/ fittings and spark-proof tools.

Use only in explosion-proof area.

Conditions for safe storage, including any incompatibilities:

Storage

Requirements to be by storerooms and containers:

Use only containers specifically permitted for this substance/product.

Store in cool location.

Provide solvent resistant, sealed floor.

Suitable material for containers and conduit: steel or stainless steel.

Information about storage in one common storage facility:

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

Avoid contact with air / oxygen. (formation of peroxide). Protect form heat and direct sunlight.

Storage class: 3

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8. **Exposure controls/personal protection**

Additional information about design for technical systems:

No other information's, see point 7.

Control parameters

Components	Components with critical values that require monitoring at the workplace:		
67-64-1 acet	7-64-1 acetone (> 50%)		
WEL	EL Short-term value: 3.620 mg/m³, 1500 ppm		
	Long-term value: 1.210 mg/m³, 500 ml/m³		

Additional information: The lists that were valid during the compilation were used as basis.

Exposure controls

Personal protection equipment

General protective and hygienic measures

The usual precautionary measures should be adhered to in handling the chemicals.

Wash hands during breaks and at the end of the work.

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Protection of hands: Protective gloves.

Material of gloves

Butyl rubber, BR; Recommended thickness of the material: ≥ 0.5 mm

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed safety glasses. **Body protection:** Protective work clothing.

9. Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form: fluid Colour: colourless Smell: aromatic

Data relevant for safety:

Boiling point/Boiling range: 56,1 °C Flash point: - 18 °C 540 °C Ignition temperature:

Danger of explosion: The Product is not explosive. However, formation of

explosive air/steam mixture is possible.

Critical values for explosion: Lower e.l.: 2,6 Vol.%

> 13 Vol.% Upper e.l.: 233 mbar

Steam pressure at 20°C: Density (20°C): 0.791 g/cm^3

Solubility in water (20°C): Fully miscible

10. Stability and reactivity

Reactivity

Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions: Possible formation of peroxide.

11. Toxicological information

Information on toxicological effects

Acute Toxicity

7	cute Toxicity.					
	relevant for c	levant for classification LD/LC50- values				
67-64-1 acetone		ne				
	Oral	LD50	5.800 mg/kg (rat)			
	Dermal	LD50	> 15.800 mg/kg (rat)			
	Inhaled	LC50	76 mg/l (rat) (4h)			

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Primary irritant effect:

on the eye: Irritant effect.

Sensitization: No sensitizing effect known.

12. Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (assessment by list): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Results of PBT and vPvB assessment

PBT: Not applicable **vPvB:** Not applicable

13. Disposal considerations

Waste treatment methods

Recommendations

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal must be made according the local authority regulations.

European waste catalogue

07 00 00 WASTES FORM ORGAGNIC CHEMICAL PROCESSES
07 01 00 wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 04* other organic solvents, washing liquids and mother liquors

Uncleaned packaging:

Recommendations:

Disposal must be made according to official regulations.

Empty contaminated packaging's thoroughly. They can be recycled after thorough and proper cleaning.

Recommended cleaning agent: Water, if necessary with cleaning agent.

14. Transport information

Land transport ADR/RID

Class: 3 UN-No.: 1090 Package Group: II

Identification: Acetone

Classifications code: F 1 shipment category: 2 Label-no.: 3

Packing instruction: P 001, MP 19 limited of volume: 1 L Tunnel restriction code: D/E

Marine transport IMDG/GGVSee

UN-No.: 1090 Class: 3.2 Package Group: II

EMS-No.: F-E, S-D Label: 3 Marine Pollutant: no Label: --

Proper Shipping Name: Acetone

Air transport ICAO-TI and IATA-DGR

Class/Division: 3 UN/ID-No.: 1090 Package Group: II, Label-No.: 3

Packing inst. Passenger aircraft: 305/Y305 Max. net/Package: 5 L / 1L Packing inst. Cargo aircraft: 307 Max. net/Package: 60 L

Proper Shipping Name: Acetone

15. Regulatory information

Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant phrases

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

National regulations

Technical instructions (air):

i centineur miser decrons (un				
Class	Share in %			
NK	100.0			

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Water hazard class: Water hazard class 1 (Assessment by list): slightly hazardous for water. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Other information

These date are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally contractual relationship.

Department issuing data specification sheet:

Contact: Helmut. Klumpf Technische Chemie KG

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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