

MATERIAL SAFETY DATA SHEET

Last changed: 08/Dec/1998

Internal no.: :rev LdV-2

Replaces date: 12/Jan/1995

CLEANBREAK

1. PRODUCT AND COMPANY

TRADE NAME CLEANBREAK
APPLICATION CLEANING PRODUCTS
ART-NO 651 571497 (25 liter), 651 571505 (210 liter)

Producer/Importer UNITOR CHEMICALS, Kjemi-Service AS
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2. COMPOSITION OF PRODUCT

No	Ingredients name	CAS-NO	Cons.(weight%)	Classification
1	WHITE SPIRIT (low aromatic)	64742-48-9	60-100	-
2	Components which do not contribute to the classification of the product.		5-10	
Legend	T+=Very toxic, T=Toxic, C=Corrosive, Xn=Harmful, Xi=Irritant, IK=No classification required, E=Explosive, O=Oxidising, F+=Extremely flammable, F=Very flammable, Fo=Flammable, N=Dang. to the environment, Mut=Genetoxic, Sens=Sensitizing, Carc=Carcinogen, Repr=Causes birth defects			

3. HAZARD IDENTIFICATION

Liquid.Brown.Insoluble in water.
Harmful by inhalation.
Ingestion may cause some of the product to enter the lungs and cause chemical pneumonitis. The risk increases with vomiting, which may occur spontaneously due to irritation of the mucous membranes.
Repeated or prolonged exposure may cause skin irritation and dermatitis, due to the product's defatting properties.

4. FIRST AID

GENERAL

Seek medical attention if any signs of unconsciousness or discomfort develop.Show this safety data sheet to the physician present.

INHALATION

Low inhalation risk, except if the product is heated/burned.In case of accidental inhalation of vapours or decomposition products, move to fresh air.Get medical advice if discomfort develops.

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SKIN CONTACT

Wash skin thoroughly with soap and water for several minutes. Get medical attention if irritation persists after washing. Remove contaminated clothing immediately. Wash contaminated clothing before reuse.

EYE CONTACT

Flush with large amounts of water (open eyelids) for at least 15 minutes. If eye irritation persists, consult a specialist.

INGESTION

DO NOT INDUCE VOMITING! Get medical advice immediately.

If vomiting occurs, keep the head low to prevent obstruction of airways.

MEDICAL INFORMATION

High risk of chemical pneumonia (pneumonitis) if aspirated during and after ingestion. If necessary, perform gastric lavage after intubation. The product has moderate acute toxicity.

5. FIRE FIGHTING MEASURES

PROPER FIREFIGHTING EQUIPMENT

Water spray, fog or mist, alcohol-resistant foam, dry chemical, carbon dioxide (CO₂).

IMPROPER FIREFIGHTING EQUIPMENT

Do not use strong water jet for extinguishing - may cause spattering of burning material.

FIRE AND EXPLOSION HAZARDS

Vapours are heavier than air and may travel along the ground for considerable distances to ignition sources.

PERSONAL PROTECTION WHEN FIREFIGHTING

S-210 Wear self-contained breathing apparatus or supplied-air respirator in confined spaces.

OTHER INFORMATION

Containers close to fire should be removed immediately or cooled with water.

6. ACCIDENTAL RELEASE MEASURES

SAFETY MEASUREMENTS TO PROTECT PERSONS

Clean-up personnel should use respiratory protection and/or protection against liquid contact. Use personal protective equipment as specified in section 8. Vapours are heavier than air and may travel along the ground for considerable distances to ignition sources. Eliminate all possible ignition sources.

SAFETY MEASUREMENTS TO PROTECT ENVIRONMENT

Do not contaminate lakes, canals or ditches with the chemical or its container. Dike with absorbent material and prevent spreading and release to water sources and sewers.

PROPER METHODS FOR DAMAGE LIMITATION AND CLEANUP

Remove spill with absorbent materials and/or mechanical equipment, and dispose of in accordance with section 13. Flush with large amounts of water to clean the area. Ventilate well.

7. HANDLING AND STORAGE

HANDLING ADVICE

Use personal protective equipment as specified in section 8. Avoid contact with skin and eyes. Eyewash facilities should be available at the workplace.

STORAGE

S-3/9/49 Keep only in the original container in a cool, well ventilated place. S-3/9/49 Containers must be kept tightly closed. S-3/9/49 Keep away from open flames, hot surfaces and sources of ignition.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Ingredients name	CAS-no	TLV value	TLV Year
WHITE SPIRIT (low aromatic)	64742-48-9	275.0 mg/m ³	1995

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EXPOSURE CONTROL

Arrange working conditions and methods to avoid prolonged contact with the product. Do not inhale aerosol.

RESP. PROTECTION

Use respiratory protection for operations which generate gas, fumes, vapour or mist, e.g. gas mask with combination cartridge A2/P2.

EYE PROTECTION

Wear eye protection if there is a possibility of direct contact or splashes.

HAND PROTECTION

Use protective gloves of impervious material, e.g. rubber/plastic.

SKIN PROTECTION

Protective clothing should be worn if there is a possibility of direct contact or splashes.

OTHER INFORMATION

Do not smoke in work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid.		
Colour	Brown.		
Odour	Oily.		
Solubility	Insoluble in water.		
Melting point/range	N/E	Density	0.79 @ 20 °C
Expl. limit LEL-UEL, %--%:	0.6 - 8.0	Solubility in water	0 %
Vapor pressure	1 mbar @ 20 °C	Saturation conc.	N/A
Decomposition temp.	N/A	Rel. density sat. air (air=1)	N/A
pH Solution	N/A	Boiling point/range	195 °C (760 mm Hg)
Flash point	66 °C	pH konzentrat:	N/A
Molecular weight	N/A	Viscosity	N/E
Ignition temp	225 °C	Smelling limits lo-hi	N/A
Rel. vapor density (air=1)	N/A	Rel. evap. velocity	N/E
Air reactive	N/A	Water reactive	N/A

OTHER INFORMATION

N/A = Not applicable.

N/E = Not established.

10. STABILITY AND REACTIVITY

STABILITY

Stable under normal conditions.

MATERIALS TO AVOID

Hydrocarbons and their derivatives may attack certain types of plastic, rubber and paint.

HAZARDOUS DECOMPOSITION PRODUCTS

No decomposition if stored and used as directed.

OTHER INFORMATION

Vapour/gas may form explosive mixtures with air.

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11. TOXICOLOGICAL INFORMATION

GENERAL

Prolonged inhalation of solvents may cause chronic solvent intoxication.

INHALATION

Hydrocarbons may have an anesthetic effect, and may cause chemical pneumonitis upon inhalation of aerosol. Chemical pneumonitis symptoms: Coughing and irritation of the respiratory system.

SKIN CONTACT

Irritates and defats the skin causing dryness, cracking and dermatitis.

EYE CONTACT

Vapour or splashes in the eye may cause irritation, redness, smarting and discomfort.

INGESTION

Significant amounts may cause spontaneous vomiting. Risk of inhalation and chemical pneumonitis.

CANCER

Not regulated.

12. ECOLOGICAL INFORMATION

MOBILITY

Floats on water.

BREAKDOWN

Expected to be potentially biodegradable (inherently biodegradable).

ACCUMULATION

Has the potential to bioaccumulate.

ECOTOXITY

Exhibits low toxicity to water organisms.

LC50 (fish, mg/litre):>100 (96 h)

EC50/48h/Daphnia = >100 mg/l

EC50 (algae, mg/litre / 72 hours): >100 mg/l

OTHER INFORMATION

No environmental problems are expected if the product is handled/used correctly.

This product has been evaluated on its behaviour in the environment by "The TNO Institute of Environmental Sciences" (The Netherlands organisation for applied Scientific Research).

Based upon their report, IMO's BCH Working Group on the Evaluation of Safety and Pollution Hazards approved this product for use as tank cleaning agent by chemical tankers.

13. DISPOSAL

S-35 This material and its container must be disposed of in a safe way.S-35 In accordance with local and national regulations.

14. TRANSPORT INFORMATION

GENERAL

Goods classified for transport : NO
PROPER SHIPPING NAME : Not applicable
Flash point : 66 °C

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Label information:

ADR

Class : Not regulated.

IMDG-CODE

Class : Not regulated.

IATA-DGR

Class : Not regulated.

US DOT

Class : Not regulated.

GENERAL

Not considered as dangerous goods under UN, IMO, ADR/RID or IATA/ICAO regulations.

15. REGULATORY INFORMATION

Classification

R-PHRASES

Not required

S-PHRASES

S-36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

REFERENCES

Classified according to European directive on classification of dangerous preparations 90/492/EEC.

OTHER INFORMATION

The product is labelled in accordance with EU directive 88/379.

16. OTHER INFORMATION

ISSUED: 08/Dec/1998

VENDOR NOTES

The safety data sheet fulfills requirements specified in Directive 93/112/EEC. The safety data sheet has been prepared on the basis of information given by our suppliers and our present knowledge. Information given is intended to present guidelines for safe handling, use, processing, storage, transport, disposal and discharge; it is not intended to be a guarantee or quality specification. The intent of this safety data sheet is to give a description of the product with regard to safe storage, handling and use. Information given applies only to the product itself, and not in combination with other products or in any processed form, unless this is specified in the text. We believe that all information in this safety data sheet (which replaces all previous versions) was correct at the date of issue. It is the responsibility of the recipient of this safety data sheet to ensure that information given here is read and understood by all who use, handle, dispose of or in any way come in contact with the product.