

Material Safety Data Sheet

In accordance with REACH Regulation (EC) no. 1907/2006

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

Produktidentificator: MULTITEC

PR-nr.: -

Relevant identified uses of the substance or mixture and uses advised against:
The product is used as a leak detection spray.

Details of the supplier of the safety data sheet:

Producer:

Company: Unipak A/S
Marktoften 3c
8464 Galten
Denmark

Contactperson: lve@eurofins.dk

Phone no. for emergencies: +45 86 26 11 77 (Unipak, during working hours)
+45 82 12 12 12 (Bispebjerg hospital, Giftlinje ("Toxins Line"))

Date: 12.11.2012

The logo for Unipak, featuring the word "Unipak" in a bold, yellow, sans-serif font with a blue outline.

2. Hazards identification

Classification of the substance or mixture:

The product is not classified as dangerous according to the Danish Environment Ministry Directive No.1075/2011.

This product may cause irritation after repeated or prolonged contact with skin.

The full text of R-and H-phrases: see section. 16

Labeling elements:

Labelling according to (1075/2011)

Eurofins Product Testing A / S 12 November 2012 estimated that the product is not covered by the rules for classification and labeling according to the Danish Environment Ministry Directive on classification, labeling etc.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 ° C. Do not pierce or burn. Not even when empty. Store out of reach of children.

Contains 0 weight percent flammable parts.

Other hazards: None known.

PBT/vPvB: Components are not PBT/vPvB according to the criteria in REACH Annex XIII.

3. Composition/information on ingredients

Substances: -

Mixtures:

<u>Substance name</u>	<u>CAS-no.</u>	<u>EF-no.</u>	<u>Indeks-no.</u>	<u>Veight- %</u>	<u>REACH reg.-no.</u>	<u>Classification</u>
Carbon dioxide	124-38-9	202-696-9	-	1-5	-	- CLP*: -

CIP*: European Parliament and Council Regulation (EC) no. 1272/2008.

The full text of R-and H-phrases: see section. 16

4. First-aid measures

Description of first aid measures:

Inhalation:

Seek fresh air.

Skincontact:

Wash the skin with plenty of soap and water. After washing, rub skin with a thick cream. If symptoms persist: Seek medical attention.

Eye contact:

Open the eye, rinse immediately with water or saline for at least 15 minutes. Remove contact lenses. Seek medical attention.

Swallowing:

Immediately rinse mouth thoroughly and drink plenty of water. If immediate medical attention is not possible, do not induce vomiting. Keep the head low to prevent aspiration. Seek medical attention

4. First-aid measures

Burns:

Not relevant

Most important symptoms and effects, both acute and delayed:

The product can be irritating to skin and eyes.

Indication of any immediate medical attention and special treatment needed:

Unconscious: Immediately get medical attention. Show this safety data sheet to the doctor or emergency room.

5. Fire-fighting measures

Extinguishing media:

Water spray (never water jet - spreads the fire), CO₂, foam or powder.

Special hazards arising from the substance or mixture:

The product is not flammable. Avoid inhalation of smoke gases.

Advice for firefighters:

As far as possible remove the product from areas threatened by fire, or cool with water. Wear self-contained breathing apparatus for firefighting.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

No protective equipment is needed under normal use of the product.

Environmental precautions:

At release to the external environment, contact the environmental authorities

Methods and materials for containment and cleaning up:

Large amounts; Cover / absorb with sand or other absorbent material. Collected and handled as chemical waste. Rinse thoroughly with water. Further handling of spillage - see section 13.

Reference to other sections:

See above.

7. Handling and storage

Precautions for safe handling:

Avoid skin and eye contact. Wash if skin becomes contaminated. Ensure access to water supply and eye wash facilities.

Conditions for safe storage, including any incompatibilities:

Store in tightly closed original container in a well-ventilated place. Keep separate from food, feedstuffs, etc.

Fire hazard class: -

Specific use:

See application - section. 1

8. Exposure controls/personal protection

Control parameters:

The following notifiable ingredients have a threshold according to the notice of the limit values for substances and materials No 1134/2011:

Carbo dioxide 5000 ppm = 9000 mg/m³ (EU limit value)

Compliance with limit values can be checked by occupational hygiene measurements.

DNEL: No CSR.

PNEC: No CSR.

Exposure control:

Appropriate measures for exposure control:

No special.

Personal protective equipment:

Inhalation: In case of inadequate ventilation and formation of aerosols: Use half mask EN 140 with removable particle filter P3 NR according to EN143. Read the instruction.

Skin: If repeated or prolonged contact wear protective gloves, for example. nitrile *). It is recommended to change gloves if spilled on .
*) It is important to note that there are many different types of gloves, why it is necessary to document the effectiveness with regard to the actual product.

Eyes: Safety goggles at risk of product entering the eyes.

Measures to reduce environmental exposure:

Any residues and waste from production, must be collected and disposed of as mentioned in para. 13

Treatment and discharge of waste water shall be in accordance with local regulations.

9. Physical and chemical properties

Information on basic physical and chemical properties:

Appearance: Aerosol

Vapour pressure: -

Odour: -

Vapor Density: -

Odour threshold: -

Density: -

pH:

Solubility in water: Partly soluble

Melting point/freezingpoint:-

Partition coefficient n-octanol/water: -

Initial boiling point and boiling range: -

Auto-ignition temperature:-

Flash point:

Decomposition temperature: -

Evaporation rate: -

Viscosity: -

Flammability: -

Explosive properties: -

Upper / lower flammability or explosive limits vol.%: -

Oxidizing properties: -

Other information: -

-: Means no data or not applicable

10. Stability and reactivity

Reactivity:

Stable under normal use.

Chemical stability:

Stable under recommended storage conditions.

Possibility of hazardous reactions:

No known.

Conditions to avoid:

Heat.

Materials to avoid:

None known.

Hazardous decomposition products:

When heated to high temperatures (decomposition) the product emits toxic gases such as carbon monoxide and carbon dioxide.

11. Toxicological information

Information on toxicological effects:

Hazard class	Data	Test	Data Source
	Carbon dioxide:		
Akut toxicity:			
Inhalation	LC ₅₀ (mouse): = 200000 ppm (2h)	-	RTECS
Dermal	LD ₅₀ : No data available	-	-
Oral	LD ₅₀ : No data available	-	-
Corrosion/irritation:	Liquid and solid carbon dioxide can cause frostbite and blistering - no risk from gaseous carbon dioxide	-	K and S
Sensitization	There is no information that illuminate the sensitizing effect	-	K and S
CMR:	Carcinogenic effects: There is no information that illuminate the carcinogenic effect	-	K and S
	Mutagenicity: There is no information that illuminate the mutagenic effect	-	K and S
	Fertility toxicity: No data available	-	K and S
	Embryo damaging effects: Experiments indicate that high concentrations can be teratogenic	-	K and S

Likely routes of exposure: Skin, lungs and gastrointestinal tract.

Symptoms:

Inhalation:

Product vapors can irritate the respiratory system and may cause dizziness, headache and general malaise.

Skin:

The product can be irritating to the skin.

Eyes:

Product is irritating to the eyes.

Ingestion:

Ingestion may cause nausea and vomiting.

Long-term effects:

No known

12. Ecological information

Toxicity:

There are no adequate data of the ingredients for an environmental classification according to the Danish Environment Ministry criteria.

Persistence and degradability:

No data available.

Bioaccumulative potential:

No data available.

Mobility in soil:

No data available.

Results of PBT and vPvB assessment:

Components are not PBT / vPvB according to the criteria in Reach Annex XIII.

Other adverse effects:

None known.

13. Disposal

Waste treatment methods:

The product must be considered as hazardous waste. Use the municipal collection and removal system.

Chemical Group:

Z

Waste fraction:

05.00

EAK code:

16 05 04

14. Transport information

This product is considered hazardous for transport.

UN-number: 1950

UN proper shipping name:

Aerosols

Transport hazard class (es): 2

Packing group: -

Environmental hazards: -

Special precautions for user:-

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: -

15. Regulatory information

Regulations / legislation specific for the substance or mixture with respect to safety, health and environment:

Subject to the following regulations:

- Notice of aerosols, No. 1003 of 26 October 2009.

Chemical Safety assessment:

No CSA.

16. Other information

Hazard Phrases referred to under sections 2, 3 and 16:

None

Abbreviations:

At = The Danish Working Environment Authority (Arbejdstilsynets) threshold list.

BOD: Biochemical oxygen demand

CMR = Carcinogenicity, mutagenicity and reproductive toxicity

COD: Chemical oxygen demand

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DNEL = Derived No-Effect level

EC₅₀ = Effect Concentration 50%

K og S = Kemikalier og Sikkerhed, Nyt Teknisk Forlag

LC₅₀ = Lethal Concentration 50%

LD₅₀ = Lethal Dose 50%

OECD: Organisation for Economic Co-operation and Development

PBT= Persistent, Bioaccumulative, Toxic

PNEC = Predicted No-Effect Concentration

vPvB = very Persistent, very Bioaccumulative

Literature:

C & L Inventory database = Industry List

ECHA = European Chemical Agency

IUCLID = International Uniform Chemical Information Database

K and S = Chemicals and safety, the safety committee for chemical industries. Process Industry Association

RTECS = Registry of Toxic Effects of Chemical Substances

Advice on training/instruction:

The product should only be used by persons well instructed in the proper work procedure and familiar with the contents of this safety data sheet.

Further information:

The safety data sheet is prepared according to REACH Regulation (EC) No 1907/2006.

The safety data sheet is updated. Previous version dated 11.03.2010. Original version 14.03.2006.

Changes since the previous version: Item 1-16.

Classification of the substance or mixture the Danish Environment Ministry Directive no. 1075/2011:

The product is not classified as hazardous under CLP.

The product is not covered by the rules for classification and labeling.

This product may cause irritation after repeated or prolonged contact with skin.

Labelling according to CLP (1272/2008)

Eurofins Product Testing A / S 12 November 2012 estimated that the product is not covered by the rules for classification and labeling according to European Parliament and Council Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures (CLP).

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 ° C.
Do not pierce or burn. Not even when empty. Store out of reach of children.

Contains 0 weight percent flammable parts.

Prepared by: Eurofins Product Testing A/S, Smedeskovvej 38, 8464 Galten, tlf. 70 22 42 76, fax 70 22 42 75