

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: SAN SPRAY

PR-nr.: -

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

The product is used as a lubricant for plastic pipes etc..

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 classified as dangerous with F+; R12 according to the Danish Environment Ministry Directive No 1075/2011.

The product can be irritating to skin, eyes and respiratory system. The product is extremely flammable.

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

Labeling elements:

Labelling according to (1075/2011)

Extremely flammable (R12)

Do not breathe vapour/spray (S23)
Avoid contact with skin and eyes (S24/25)
Use only in well-ventilated areas (S51)



Container under pressure. Must be protected from sunlight and not exposed to temperatures above 50°C. Do not pierce or burn, even when empty. Do not spray near naked flame or incandescent material. Store away from any ignition source – No smoking. Store out of reach of children.

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>
Butan (<0,1% butadien)	106-97-8	203-448-7	601-004-00-0	30-60	-	F+;R12 CLP: Flam. Gas 1;H220 Press. Gas
Propan	74-98-6	200-827-9	601-003-00-5	30-60	-	F+;R12 CLP: Flam. Gas 1;H220 Press. Gas

ClAP*: 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. **Mild cases:** Keep still under observation. At discomfort: Seek medical attention. **Severe cases:** Place unconscious in recovery position with the head in a low position and keep warm. If breathing has stopped, administer artificial respiration; Seek medical attention or ambulance immediately.

Skincontact:

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

4. First-aid measures

Eye contact:

Open the eye, rinse immediately with water or saline for at least 15 minutes. Remove contact lenses. If symptoms persist: Seek medical attention. Continue rinsing the eye during the transportation to doctor/hospital.

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. Call an ambulance immediately. Do not administer liquid to unconscious. At unconsciousness see "Inhalation".

Burns:

Rinse with water until pain ceases. While flushing, remove clothes which do not adhere to the skin area. If medical treatment is necessary, continue flushing until medical attention is obtained.

Most important symptoms and effects, both acute and delayed:

The product can be irritating to skin, eyes and respiratory system.

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 extremely flammable. Containers may explode if heated above 50 ° C. Burning produces toxic gases. for example. carbon dioxide, carbon monoxide, smoke.

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:

Avoid sources of ignition. No smoking. Use personal protective equipment - see section 8. Ensure good ventilation. Avoid breathing vapor or spray mist.

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 inhalation of vapors and aerosols. Ensure good ventilation. Avoid contact with skin, eyes and clothing. Wash promptly if skin becomes contaminated. Access to water supply and eye wash facilities.

Conditions for safe storage, including any incompatibilities:

Store in tightly closed original container in a dry place. Keep separate from food, feedstuffs, etc. Avoid temperatures above 50 ° C.

Fire hazard class: I-1, A storage unit: 1 liter.

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:

n-butan	500 ppm = 1200 mg/m ³
Propan	1000 ppm = 1800 mg/m ³

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

DNEL: No CSR. **PNEC:** No CSR.

Exposure control:

Appropriate measures for exposure control:
Ensure good ventilation.

Personal protective equipment:

Inhalation: In case of inadequate ventilation: Use full face mask EN 136 with replaceable gas filter type AX according to EN 14387 or equivalent. The filter is for single use only. Read the instruction.

Skin: Wear protective gloves such as nitrile *). It is recommended to change the glove if spilled on it.

*) 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: 1,0 g/cm ³
pH:	Solubility in water: Insoluble
Melting point/freezingpoint:-	Partition coefficient n-octanol/water: -
Initial boiling point and boiling range: -	Auto-ignition temperature: -
Flash point: <21°C	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. Risk of explosion if heated. In contact with strong oxidizing agents heat can be created and formation of flammable vapors formed. When heated fumes are released that can ignite and form explosive mixtures

Chemical stability:

Stable under recommended storage conditions.

Possibility of hazardous reactions:

No known.

Conditions to avoid:

Heat.

Materials to avoid:

None known.

Farlige nedbrydningsprodukter:

Decomposition products at fire can be; monoxide, carbon dioxide, smoke.

11. Toxicological information

Information on toxicological effects:

Hazard class	Data	Test	Data Source
	Butan:		
Akut toxicity:			
Inhalation	LC ₅₀ (rat):= 658 mg/l/4h	-	IUCLID
Dermal	LD ₅₀ (rabbit) : No data available	-	-
Oral	LD ₅₀ (rat) : No data available	-	-
Corrosion/irritation:	Skin: No data available	-	IUCLID -
	Eye (rabbit): Not irritating	-	
Sensitization	No data available	-	-
CMR:	Carcinogenic effects: No known effect on humans	-	IUCLID
	Mutagenicity: Negative in tests	Ames test	IUCLID
	Fertility toxicity: No data available	-	-
	Embryo damaging effects: No data available	-	-
	Propan:		
Akut toxicity:			
Inhalation	LC ₅₀ (rat):= 658 mg/l/4h	-	IUCLID
Dermal	LD ₅₀ (rabbit) : No data available	-	-
Oral	LD ₅₀ (rat) : No data available	-	-
Corrosion/irritation:	Skin (rabbit): irritating	-	IUCLID
	Eye (rabbit): not irritating	-	IUCLID
Sensitization	No data available	-	-
CMR:	Carcinogenic effects: No known effect on humans	-	IUCLID
	Mutagenicity: Negative in tests	Ames test	IUCLID
	Fertility toxicity: No data available	-	-
	Embryo damaging effects: No data available	-	-

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.

11. Toxicological information

Ingestion:

Ingestion may cause nausea and vomiting.

Long-term effects:

No known

12. Ecological information

Toxicity:

Aquatic	Data	Test (media)	Data Source
Fish	Butan*: LC ₅₀ 96h > 1000 mg/kg	-	IUCLID
Crustaceans	EC ₅₀ No data available	-	-
Algae	EC ₅₀ No data available	-	-
Fish	Propan*: LC ₅₀ 96h > 1000 mg/kg	-	IUCLID
Crustaceans	IC ₅₀ No data available	-	-
Algae	EC ₅₀ No data available	-	-

There are no adequate data of the ingredients for an environmental classification according to the Danish Environment Ministry criteria.
*) The entries will typically evaporate during test trials. Calculated LC50 using QSAR is respectively 13.0 mg / l (propane) and 6.0 mg / l (n-butane).

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:

Not for use by persons under 18 years (except apprentices).

In addition, 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:

R12: Extremely flammable

H220: Extremely flammable gas

H222: Extremely flammable aerosol

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

Litteratur:

ECHA = European Chemical Agency

IUCLID = International Uniform Chemical Information Database

RTECS = Registry of Toxic Effects of Chemical Substances

1272/2008 = European Parliament and Council Regulation (EF) no. 1272/2008

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.

Changes since the previous version: Item 1-16.

16. Other information

Further information:

The safety data sheet is prepared according to REACH Regulation (EC) No 1907/2006.
The safety data sheet is updated. Latest version: 11.03.2010. Original version 18.05.1998.

The product is classified according to the CLP with Flam Aer. 1; H222.

The product can be irritating to skin, eyes and respiratory system. The product is extremely flammable.

Labelling according to CLP (1272/2008)

Extremely flammable aerosol (H222)

Avoid breathing dust/fume/gas/mist/vapours/spray (P261)
Use only outdoors or in a well-ventilated area (P271)



Danger

Container under pressure. Must be protected from sunlight and not exposed to temperatures above 50°C. Do not pierce or burn, even when empty. Do not spray near naked flame or incandescent material. Store away from any ignition source – No smoking. Store out of reach of children.

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