

SAFETY DATA SHEET

ODORANT NB

Page: 1

Compilation date: 24/11/2005

Revision date: 5/03/2013

Revision No: 7

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

1.1. Product identifier

Product name: ODORANT NB

Product code: 16410

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

Use of substance / mixture: Odorant for gas.

1.3. Details of the supplier of the safety data sheet

Company name: Robinson Brothers

Phoenix Street

West Bromwich

West Midlands

B70 0AH

United Kingdom

Tel: +44 (0) 121 553 2451

Fax: +44 (0) 121 500 5183

Email: cjtaylor@robinsonbrothers.co.uk

1.4. Emergency telephone number

Emergency tel: +44 (0) 121 553 0356

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: F: R11; Sens.: R43; N: R51/53

Classification under CLP: Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Flam. Liq. 2: H225; Skin Sens. 1: H317

Most important adverse effects: Highly flammable. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Label elements under CLP:

Hazard statements: H225: Highly flammable liquid and vapour.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

SAFETY DATA SHEET

ODORANT NB

Page: 2

Signal words: Danger

Hazard pictograms: GHS02: Flame

GHS07: Exclamation mark

GHS09: Environmental



Precautionary statements: P241: Use explosion-proof electrical/ventilating/lighting equipment.

P243: Take precautionary measures against static discharge.

P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing.

Rinse skin with water/shower.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501: Dispose of contents/container to a regulated landfill site in accordance with local, regional, national and international regulations.

Label elements under CHIP:

Hazard symbols: Highly flammable.

Irritant.

Dangerous for the environment.



Risk phrases: R11: Highly flammable.

R43: May cause sensitisation by skin contact.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S24: Avoid contact with skin.

S37: Wear suitable gloves.

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

Precautionary phrases: Warning! Do not use with other products. May release dangerous gases (chlorine).

2.3. Other hazards

Other hazards: May be irritating to respiratory mucous membranes. In use, may form flammable / explosive vapour-air mixture. Toxic to aquatic organisms.

PBT: This product is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

[cont...]

SAFETY DATA SHEET

ODORANT NB

Page: 3

Hazardous ingredients:

TERTIARY BUTYL MERCAPTAN

EINECS	CAS	CHIP Classification	CLP Classification	Percent
200-890-2	75-66-1	F: R11; Sens.: R43; N: R51/53	Flam. Liq. 2: H225; Skin Sens. 1: H317; Aquatic Chronic 2: H411	78-90%

DIMETHYLSULPHIDE

200-846-2	75-18-3	F: R11; -: R52	Flam. Liq. 2: H225; Eye Irrit. 2: H319; Asp. Tox. 1: H304; Aquatic Chronic 3: H412	10-30%
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. A residual odour may cling to skin. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact. May give delayed skin sensitisation

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: Not likely due to odour. There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. May be irritating to respiratory mucous membranes. Exposure to vapour may cause headache

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Alcohol or polymer foam. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.

[cont...]

SAFETY DATA SHEET

ODORANT NB

Page: 4

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Highly flammable. Vapour may travel considerable distance to source of ignition and flash back. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. / In combustion emits toxic fumes of sulphur oxides.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Eliminate all sources of ignition. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Contain spillage Do not discharge into drains or rivers. Alert National Rivers Authority or other appropriate regulatory body of spillages or uncontrolled discharges into watercourses.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: **NOTIFY LOCAL GAS SUPPLY UNDERTAKINGS FOR POSSIBLE FALSE ALARM CALLS** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks. Destroy residual odorant with sodium hypochlorite (bleach) or hydrogen peroxide. Refer to section 13 of SDS for suitable method of disposal.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure there is exhaust ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Avoid direct contact with the substance. Smoking is forbidden. Use non-sparking tools. Take precautions against static discharges

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

[cont...]

SAFETY DATA SHEET

ODORANT NB

Page: 5

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

TERTIARY BUTYL MERCAPTAN

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	0.5ppm	-	-	-

DIMETHYLSULPHIDE

UK	10ppm	-	-	-
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8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is exhaust ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: PVC gloves. / Rubber gloves.

Eye protection: Safety glasses. / Safety goggles. Ensure eye bath is to hand.

Skin protection: Protective clothing. Boots.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Pale yellow

Odour: Pungent

Solubility in water: Insoluble

Also soluble in: Most organic solvents.

Boiling point/range°C: 55

Flash point°C: -30

Autoflammability°C: 247

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

[cont...]

SAFETY DATA SHEET

ODORANT NB

Page: 6

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat. Flames. Sources of ignition.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. / In combustion emits toxic fumes of sulphur oxides.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

TERTIARY BUTYL MERCAPTAN

IHL	RAT	4H LC50	26643	ppmV
ORL	RAT	LD50	4729	mg/kg
SKN	RBT	LD50	>2000	mg/kg

DIMETHYLSULPHIDE

DERMAL	RBT	LD50	>5000	mg/kg
IHL	RAT	4H LC50	26643	ppmV
ORAL	RAT	LD50	>5000	mg/kg

Relevant effects for mixture:

Effect	Route	Basis
Sensitisation	DRM	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact. May give delayed skin sensitisation

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: Not likely due to odour. There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

[cont...]

SAFETY DATA SHEET

ODORANT NB

Page: 7

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. May be irritating to respiratory mucous membranes. Exposure to vapour may cause headache

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Insoluble in water.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: Toxic to aquatic organisms. May taint water.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: By incineration or at authorised site as special/hazardous waste. Residual amounts of odorant can be destroyed by reaction with dilute solutions of sodium hypochlorite or hydrogen peroxide.

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN3336

14.2. UN proper shipping name

Shipping name: MERCAPTAN MIXTURE, LIQUID, FLAMMABLE, N.O.S.
(TERTIARY BUTYL MERCAPTAN; DIMETHYLSULPHIDE)

14.3. Transport hazard class(es)

Transport class: 3

[cont...]

SAFETY DATA SHEET

ODORANT NB

Page: 8

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: D/E

Transport category: 2

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

****REVISION**** Changes in Section: 2, 8, 11.

Phrases used in s.2 and 3: H225: Highly flammable liquid and vapour.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

R11: Highly flammable.

R43: May cause sensitisation by skin contact.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52: Harmful to aquatic organisms.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.