



1.) Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Trade name

MARABU-DO IT COLORSPRAY, shades 008-078, 090-098, 259, 266

Use of the substance/preparation

Colour spray

Company/undertaking identification

Address

Marabu GmbH & Co KG
Asperger Straße 4
D-71732 Tamm

Telephone no. (++49)-7141/691-0

Fax no. (++49)-7141/691-117

E-mail address of person responsible for this SDS

PRSI@marabu.de

Information provided by / telephone

Product safety +49 7141/691-116 or 232

Emergency telephone

++49-621-60-43333

2.) Hazards possibilities

Classification

F+

R12

R52/53

R phrases

52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Specific hazards to man and the environment

The product is water polluting.

3.) Composition / information on ingredients

Chemical characterization

Reactive agent solution: Acrylic resins in organic solvents

Propellant: Butane-Dimethyl ether

Hazardous ingredients

DIMETHYL ETHER

CAS no. 115-10-6

EINECS no. 204-065-8

Concentration >= 25 < 50 %-b.w.

Classification F+;R12

BUTANE

CAS no. 106-97-8

EINECS no. 203-448-7

Concentration >= 25 < 50 %-b.w.

Classification F+;R12

**Safety data sheet in accordance with regulation (EC) No 1907/2006**

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Status: 29.04.2008

Product no.: 2106

Version : 1 / GB

Date of printing : 07.05.2008

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT

CAS no. 64742-49-0
EINECS no. 265-151-9
Concentration \geq 10 < 25 %-b.w.
Classification Xn;R65
F;R11
N;R51/53
Xi;R38
R67

ETHANOL

CAS no. 64-17-5
EINECS no. 200-578-6
Concentration \geq 2,5 < 5 %-b.w.
Classification F;R11

ETHYL ACETATE

CAS no. 141-78-6
EINECS no. 205-500-4
Concentration \geq 2,5 < 5 %-b.w.
Classification F;R11
Xi;R36
R66
R67

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.

CAS no. 64742-95-6
EINECS no. 265-199-0
Concentration \geq 2,5 < 5 %-b.w.
Classification Xn;R65
Xi;R37
N;R51/53
R10
R66
R67

2-PROPANOL

CAS no. 67-63-0
EINECS no. 200-661-7
Concentration \geq 2,5 < 5 %-b.w.
Classification F;R11
Xi;R36
R67

2-METHOXY-1-METHYLETHYL ACETATE

CAS no. 108-65-6
EINECS no. 203-603-9
Concentration \leq 2,5 %-b.w.
Classification R10
Xi;R36



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BUTAN-1-OL

CAS no. 71-36-3
EINECS no. 200-751-6
Concentration <= 2,5 %-b.w.
Classification R10
Xn;R22
Xi;R37/38-41
R67

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY

CAS no. 64742-48-9
EINECS no. 265-150-3
Concentration <= 2,5 %-b.w.
Classification Xn;R65
R10
R66
R67

4.) First aid measures

General information

Immediately remove all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Unconsciousness: lateral position - call a physician.

After inhalation

Take the casualty into the fresh air and keep warm. Irregular breathing/no breathing: artificial respiration. Call a physician.

After skin contact

Wash away with soap and water and rinse. Do NOT use solvents or thinners!

After eye contact

Flush with plenty of water (10 - 15 min.). Call a physician.

After ingestion

Call a physician. Keep at rest. Do not induce vomiting.

5.) Fire-fighting measures

Suitable extinguishing media

Carbon dioxide, dry powder or water spray jet. For bigger fires, use water spray jet. In the event of a fire, remove where possible undamaged cans from the danger zone. Alternatively cool with water. Danger of explosion.

Extinguishing media that must not be used for safety reasons

Full water jet

Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases

In case of fire, dangerous smoke gases such as carbon dioxide, carbon monoxide, soot, nitrogen oxides, metal oxides and halogenated hydrogens can be produced. Therefore, take suitable precautionary measures for fire fighting. Residues remaining after a fire have to be disposed of appropriately.

Special protective equipment for fire-fighting

Breathing apparatus with an independent source of air may be required.

Other information

Cool endangered containers with water in case of fire.



6.) Accidental release measures

Personal precautions

Keep away from sources of ignition. Provide for good ventilation. Do not breathe vapours. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

Methods for cleaning up

Remove by liquid absorbing material (e.g. kieselguhr) and process according to waste regulations. Clean preferably with a detergent; avoid use of solvents.

7.) Handling and storage

Handling

Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the workplace exposure limit. Do not leave containers open. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Avoid contact with skin and eyes. Avoid inhalation of vapour and spray mist. When using do not eat, drink or smoke. Comply with the health and safety at work laws.

Advice on protection against fire and explosion

Keep away from ignition sources - No smoking. Do not store alongside highly flammable materials. Operators should wear antistatic footwear and clothing. No sparking tools should be used.

Classification of fires

C (Flammable gases)

Storage

Requirements for storage rooms and vessels

Gases in pressurized containers should not be allowed to be heated over 50°C by sunshine or other heat sources. Regard special prescriptions for storage of pressurized containers.

Hints on storage assembly

Do not store alongside highly flammable materials.

Further information on storage conditions

Keep away from sources of ignition. Keep containers dry and cool.

8.) Expose controls/personal protection

Exposure limit values

BUTANE

WEL (EH40/2005)

Value	600	ml/m ³	1450	mg/m ³
STEL	750	ml/m ³	1810	mg/m ³

ETHANOL

WEL (EH40/2005)

Value	1000	ml/m ³	1920	mg/m ³
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DIMETHYL ETHER

2000/39/EC

Value	1000	ml/m ³	1920	mg/m ³
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WEL (EH40/2005)

Value	400	ppm	766	mg/m ³
STEL	500	ppm	958	mg/m ³



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ETHYL ACETATE

WEL (EH40/2005)

Value 200 ml/m³

STEL 400 ml/m³

1,2,4-TRIMETHYLBENZENE

2000/39/EC

Value 20 ml/m³ 100 mg/m³

WEL (EH40/2005)

Value 25 ml/m³ 125 mg/m³

2-PROPANOL

WEL (EH40/2005)

Value 400 ml/m³ 999 mg/m³

STEL 500 ml/m³ 1250 mg/m³

BUTAN-1-OL

WEL (EH40/2005)

STEL 50 ml/m³ 154 mg/m³

Skin resorption /
sensibilisation Sk

AROMATICS

WEL (EH40/2005)

Value 500 mg/m³

CYCLOALKANES, >=C7

WEL (EH40/2005)

Value 800 mg/m³

NORMAL AND BRANCHED CHAIN ALKANES, >=C7

WEL (EH40/2005)

Value 1200 mg/m³

2-METHOXY-1-METHYLETHYL ACETATE

2000/39/EC

Value 50 ml/m³ 275 mg/m³

STEL 100 ml/m³ 550 mg/m³

Skin resorption /
sensibilisation skin

WEL (EH40/2005)

Value 50 ml/m³ 274 mg/m³

STEL 100 ml/m³ 548 mg/m³

Skin resorption /
sensibilisation Sk

Exposure controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If this is insufficient to keep the concentration of the propellant and of the vapours of the solvents contained in this product be low the OEL, suitable respiratory protection must be worn.

Occupational exposure controls

Respiratory protection

Breathing protection equipment required in inadequately ventilated workplaces.

Respiratory filter (gas) : A

Respiratory filter (part): P2



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Hand protection

Chemical protection gloves are suitable, which are tested according to EN 374.

Recommendation for protection against components normally found in the products:

For short-term contact (e.g. spray protection) as well as for long-term contact (e.g. cleaning purposes):

Suitable material: LLDPE

Material thickness: 0.06 mm

Penetration time: >480 min.

Protective gloves must always be tested and confirmed with regard to suitability to each specific working environment (e.g. mechanical resistance, product compatibility, antistatic).

Follow the instructions and information from the glove manufacturer in reference to use, storage, care, and frequency of glove exchange.

Protective gloves should be immediately replaced upon being damaged or when showing first signs of wear. Preventive skin protection (skin protective cream) is recommended. Contaminated skin areas should immediately be washed (follow data sheet for skin protection M 042).

Working procedures are to be so arranged that the permanent wearing of gloves will not be necessary.

We recommend to set up a hand protection plan, which is adapted to the needs of the local business. Further information is provided in the publications of Bundesverband Handschutz (nos. 6 and 9) and BG Druck und Papierverarbeitung (528.1, 528.2, 531.X).

Eye protection

Use safety glasses.

Skin protection

Personal should wear antistatic clothing made of natural fibre or of high temperature resistant synthetic fibre. All parts of the body should be washed after contact. Use re-greasing skin cream.

General protective and hygiene measures

The usual precautionary measures for the handling of chemicals have to be observed.

9.) Physical and chemical properties

General information

Form	Aerosol
Colour	coloured
Odour	characteristic

Important health, safety and environmental information

Changes in physical state

Type	Starts to boil
Value	not applicable

Flash point

Value	not applicable
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Explosion limits

Upper explosion limit	18,6	% vol
Lower explosion limit	1,5	% vol

Vapour pressure

Value	5200	hPa
Reference temperature	20	°C



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Density

Value not determined

Solubility in water

Remarks parts of solvents

pH value

Remarks inapplicable

10.) Stability and reactivity

Conditions to avoid

Stable under recommended storage and handling conditions (See section 7).

Materials to avoid

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products

When exposed to high temperatures, dangerous decomposition products such as carbon dioxide, carbon monoxide, soot, nitrogen oxides, metal oxides and halogenated hydrocarbons can be produced.

11.) Toxicological information

Experience in practice

Exposure to component solvents vapours concentration in excess of the stated workplace exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Irritating to skin.

Splashes in the eyes may cause pronounced burning pains.

If swallowed, stomach complaints and irritation of the digestive organs may result.

Other information

There are no data available on the preparation itself.

The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EEC).

12.) Ecological information

General information / ecology

There are no data available on the preparation itself. Do not empty into waters or drains

13.) Disposal considerations

Product

Dispose of or incinerate in accordance with corresponding regulations.

Code of waste pursuant to European Council Directive on waste: 20 01 27 (Municipal wastes (Household waste and similar commercial, industrial and institutional wastes) including separately collected fractions - separately collected fractions (except 15 01) - paint, inks, adhesives and resins containing dangerous substances).

Uncontaminated packaging

Completely emptied containers can be used in the recycling chain with glass or tinfoil.

Uncleaned packaging must be disposed of in the same manner as the medium.



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DIMETHYL ETHER

12 Extremely flammable.

BUTANE

12 Extremely flammable.

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT

11 Highly flammable.

65 Harmful: may cause lung damage if swallowed.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

38 Irritating to skin.

67 Vapours may cause drowsiness and dizziness.

ETHANOL

11 Highly flammable.

ETHYL ACETATE

11 Highly flammable.

36 Irritating to eyes.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.

65 Harmful: may cause lung damage if swallowed.

10 Flammable.

37 Irritating to respiratory system.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

2-PROPANOL

11 Highly flammable.

36 Irritating to eyes.

67 Vapours may cause drowsiness and dizziness.

2-METHOXY-1-METHYLETHYL ACETATE

10 Flammable.

36 Irritating to eyes.

BUTAN-1-OL

10 Flammable.

22 Harmful if swallowed.

37/38 Irritating to respiratory system and skin.

41 Risk of serious damage to eyes.

67 Vapours may cause drowsiness and dizziness.

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY

10 Flammable.

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

Department issuing safety data sheet

Product safety.

Contact person

Dipl.-Chem. G. Heller or Dipl.-Ing. U. Voetter.

The instructions are based on today's information and knowledge. The safety data sheet describes products in relation to safety requirements. These instructions do not assure application technological properties of the product.