

Material Safety Data Sheet according 1907/2006/EG

Revision : 14.12.2010
Printing Date : 02.03.2011

01. Identification of the substance/preparation and of the company/undertaking

Product name : Now - Brennspritus
Use of the substance / preparation : THINNER
Manufacturer/Supplier : Nordwest Handel AG
Street/P.O.Box : Berliner Straße 26 - 36
Country code/Postal code/Town/City : 58135 Hagen
Telephone : 02331- 461- 0
Telefax : 02331- 461-9999
Contact : 06221/5301-0 (7.30 h - 16.00 h)
Emergency information : Nordwest Handel AG

02. Hazards identification

Hazard designation

Directive 67/548/EEC or 1999/45/EC

Highly flammable.

Classification : F ; R 11

Regulation (EC) No 1272/2008 (GHS)

Highly flammable liquid and vapour.

Classification : Flam. Liq. 2 ; H225

03. Composition/information on ingredients

Chemical characterization

ALCOHOL

Hazardous components

BUTANONE ; Registration number (EC) : 01-2119457290-43 ; EC-No. : 201-159-0; CAS-No. : 78-93-3

Percentage : $\geq 1 - < 5 \%$

Classification 67/548/EEC : F ; R11 Xi ; R36 R67 R66

Classification 1907/2006 (GHS) : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

For the wording of the listed risk phrases refer to section 16.

04. First-aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. For further information refer to "specifications about toxicology".

After inhalation

Take the casualty into the fresh air and keep warm. Keep at rest. Irregular breathing/no breathing: artificial respiration.
Unconsciousness: lateral position - call a physician.

After skin contact

Material Safety Data Sheet according 1907/2006/EG

Revision : 14.12.2010
Printing Date : 02.03.2011

Immediately remove all contaminated clothing. Wash away with soap and water and rinse. Do NOT use solvents or thinners.

After eye contact

Remove contact lenses, keep eyelids open. Flush with plenty of water (10 - 15 min.). Call a physician.

After ingestion

Do not induce vomiting - call a physician. Drink plenty of water. Keep at rest.

05. Fire-fighting measures

Suitable extinguishing media

Alcohol resistant foam, CO₂, powders, water spray.

Unsuitable extinguishing media

Waterjet.

Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Special protective equipment

Appropriate breathing apparatus may be required.

Additional information

Cool endangered containers with water in case of fire. Do not allow the quenching water into the sewage system.

06. Accidental release measures

Personal precautions

Remove ignition sources. Provide for sufficient ventilation. Do not inhale the vapour. 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/collecting

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent; avoid use of solvents.

07. Handling and storage

Information for safe handling

Prevent the creation of inflammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the OEL (=Occupational Exposure Limit). Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid contact with skin and eyes. Do not inhale the vapour. Do not eat or drink during work - no smoking. Comply with the health and safety at work laws.

Information about protection against explosions and fires

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

Requirements to be met by storerooms and containers

Lagerung in Übereinstimmung mit der Betriebssicherheitsverordnung. Keep container tightly closed. Never use pressure to

Material Safety Data Sheet according 1907/2006/EG

Revision : 14.12.2010
Printing Date : 02.03.2011

empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Information about separation of incompatible products

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

Further information about storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep away from ignition sources - No smoking.

Storage class (VCI) : 3

08. Exposure controls/personal protection

Additional information about engineering measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit) , suitable respiratory protection must be worn.

Components with critical values that require monitoring at the workplace (exposure limits)

ETHANOL ; CAS-No. : 64-17-5

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value : 500 ppm / 960 mg/m³
Category : 2(II)
Remarks : Y
Version date : 02.07.2009

BUTANONE ; CAS-No. : 78-93-3

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value : 200 ppm / 600 mg/m³
Category : 1(I)
Remarks : H, Y
Version date : 02.07.2009

Specification : TRGS 903 - biological maximum limits (D)
Parameter : 2-Butanone / urine / end of exposure or shift
Value : 5 mg/l
Version date : 31.03.2004

Specification : Limit value (Short term) (EC)
Value : 300 ppm / 900 mg/m³
Version date : 08.06.2000

Specification : Limit value (8 hours) (EC)
Value : 200 ppm / 600 mg/m³
Version date : 08.06.2000

Personal protective equipment

General protective and hygiene measures

Wash hands before breaks and after work.

Respiratory protection

Material Safety Data Sheet according 1907/2006/EG

Revision : 14.12.2010
Printing Date : 02.03.2011

If workplace limits are exceeded, a gas mask approved for this purpose must be worn. Depending on the boiling begin of the product: Respiration filter A (> 65 °C), or AX (< 65 °C), or air fed respirator.

Hand protection

Solvent-resistant protective gloves must be worn. Material: Neoprene, PVA. After washing hands replace lost skin fat by fat containing skin creams.

Eye protection

Use safety glasses.

Body protection

Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

09. Physical and chemical properties

Image

Form : Liquid
Colour : Colourless

Relevant safety data

| | | | | | |
|-------------------------|-------------------|-----|----------------|-------------------|--------------------|
| Boiling point / range : | (1013 hPa) | ca. | 78,0 | °C | |
| Flash point : | | | 12,0 | °C | DIN EN ISO 1523 |
| Ignition temperature : | | | 425,0 | °C | |
| Lower explosion limit : | | | 3,5 | % b.v. | |
| Upper explosion limit : | | | 15,0 | % b.v. | |
| Density : | (20 °C) | | 0,800 - 0,820 | g/cm ³ | |
| Solubility in water : | (20 °C) | | Miscible. | | |
| pH value: | (20 °C / conc.) | | not applicable | | |
| Content VOC (EC) : | (20 °C) | | 100,0 | % b.w. | gem. RL 1999/13/EG |

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 may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Experience on practice

Inhalation/eye contact: in high concentrations irritating to the mucous membranes, narcotic effect and influence on power of reaction and loss of coordination possible. Prolonged inhalation of vapours in high concentrations may lead to headache, giddiness and nausea. In case of contact with the product: danger of resorption through the skin, irritation of skin/mucous membranes. Eye contact: irritation.

Additional toxicological information

Material Safety Data Sheet according 1907/2006/EG

Revision : 14.12.2010
Printing Date : 02.03.2011

Packaging

Packaging group : II
Label : 3

15. Regulatory information

Labelling (67/548/EEC or 1999/45/EC)

Danger symbol and danger designation



F⁺; Highly flammable

R-phrases

11 Highly flammable.

S-phrases

35 This material and its container must be disposed of in a safe way.
51 Use only in well-ventilated areas.
16 Keep away from sources of ignition - No smoking.
33 Take precautionary measures against static discharges.
7/9 Keep container tightly closed and in a well-ventilated place.

Regulation (EC) No 1272/2008 (GHS)

Classification

Hazard classes and hazard categories

Flam. Liq. 2

Labelling

Hazard pictograms



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P303/361/353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370/378 In case of fire: Use alcohol resistant foam, CO₂, powders or water spray for extinction.
P403/235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container according to the local regulations.

National regulatory information

Water pollution classification

Material Safety Data Sheet

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Class : 1 according VwVwS

16. **Other information**

Further information

The details in this material safety data sheet satisfy national and EC legislation. We have no knowledge or control over the user's working conditions however. The product may not be used for any purpose other than that specified in chapter 1 unless written consent has been obtained. The user is responsible for the observance of all required statutory provisions.

Relevant changes

03. Hazardous components · 14. Classification (ADR) · 14. Classification (IMDG) · 14. Classification (ICAO)

R-Phrases of components

| | |
|----|---|
| 11 | Highly flammable. |
| 36 | Irritating to eyes. |
| 66 | Repeated exposure may cause skin dryness or cracking. |
| 67 | Vapours may cause drowsiness and dizziness. |

GHS Hazard statements of components

| | |
|------|-------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
