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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision: 15.05.2009 Replaces the version of: 12.11.2004 PDF date: 27.05.2010
BSL 338 1000 ml Art.: 8FX 351 310-081

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

BSL 338 1000 ml

Art.: 8FX 351 310-081

Registration number (ECHA): -

Use of the substance/preparation

Refrigerant rinsing

Company/undertaking identification

Hella KGaA Hueck & Co, Rixbecker Str. 75, D-59552 Lippstadt
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www.hella.de

E-mail address of the competent person: info@chemical-check.de, k.schnurbusch@chemical-check.de

Emergency telephone

Advisory office in case of poisoning:

Tel.:
+49 228 / 19240

Telephone number of the company in case of emergencies:

Tel. +49 (0) 2941 38 1562

2. HAZARDS IDENTIFICATION

To people

See point 11 and 15.
Product is flammable
When using: development of explosive vapour/air mixture possible.
Irritation of the eyes
Irritation of the skin.
May cause sensitization by skin contact.
Harmful: may cause lung damage if swallowed.

To the environment

See point 12.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hydrocarbons, terpene processing by-
products
CAS 68956-56-9

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EC 273-309-3

4. FIRST AID MEASURES

4.1 Inhalation

Remove person from danger area.
Supply person with fresh air and consult doctor according to symptoms.
Respiratory arrest - Artificial respiration apparatus necessary.

4.2 Skin contact



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Wash thoroughly with soap and copious water - remove contaminated clothing immediately and call doctor. Have Data Sheet available.

4.2 Eye contact

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

4.4 Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

Danger of aspiration

In case of vomiting, keep head low so that the stomach content does not reach the lungs.

4.5 Special resources necessary for first aid

n.c.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

CO₂

Foam

Dry extinguisher

Cool container at risk with water.

5.2 Extinguishing media which shall not be used for safety reasons

High volume water jet

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

In case of fire the following can develop:

Oxides of carbon

Hydrocarbons

Toxic pyrolysis products.

Explosive vapour/air mixture

Dangerous vapours heavier than air.

In case of spreading near the ground, flashback to distance sources of ignition is possible.

5.4 Special protective equipment for fire-fighters

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary

5.5 Further information

Dispose of contaminated extinction water according to official regulations.

6. ACCIDENTAL RELEASE MEASURES

Refer to point 13. and for personal protection refer to point 8.

6.1 Personal precautions

Ensure sufficient supply of air.

Remove possible causes of ignition - do not smoke.

Avoid inhalation, and contact with eyes or skin.

Do not carry cleaning cloths soaked in product in trouser pockets.

If applicable, caution - risk of slipping

6.2 Environmental precautions

If leakage occurs, dam up.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods for cleaning up

Collect using absorbant material (e.g. Universal binding medium), and dispose of according to point 13.

Use no flammable substances.

7. HANDLING AND STORAGE

7.1 Handling

Tips for safe handling:

See point 6.1



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Ensure good ventilation.
If applicable, suction measures at the workstation or on the processing machine necessary.
Keep away from sources of ignition - Do not smoke.
Take measures against electrostatic charging, if appropriate.
Wash hands before breaks and at end of work.
Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.
Observe directions on label and instructions for use.
Use working methods according to operating instructions.

7.2. Storage

Requirements for storage rooms and containers:

Not to be stored in gangways or stair wells.
Store product closed and only in original packing.
Solvent resistant floor
Do not store with oxidizing agents.
Observe special storage conditions (in Germany, e.g., in accordance with the regulations in the "Betriebssicherheitsverordnung").

Special storage conditions:

See point 10
Protect from direct sunlight and warming.
Store at room temperature.
Store in a well ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limit values

8.2 Exposure controls

8.2.1 Occupational exposure controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.
If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.
Applies only if maximum permissible exposure values are listed here.
General hygiene measures for the handling of chemicals are applicable.
Wash hands before breaks and at end of work.
Keep away from food, drink and animal feedingstuffs.

Respiratory protection:	Normally not necessary.
Filter A P 3 (EN 14387)	
If fumes build up, use suitable breathing mask.	
Hand protection:	Solvent resistant protective gloves (EN 374).
If applicable	
Protective nitrile gloves (EN 374)	
Protective PVC gloves (EN 374)	
Protective Viton gloves (EN 374)	
Protective hand cream recommended.	
Eye protection:	Tight fitting protective goggles with side protection (EN 166).
Skin protection:	Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)

Additional information on hand protection - No tests have been performed.
Selection made for preparations according to the best available knowledge and information on the ingredients.
Selection of materials derived from glove manufacturer's indications.
Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.
Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.
In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.2 Environmental exposure controls

n.av.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

Physical state:	Liquid
Colour:	Light yellow
Odour:	Characteristic

9.2. Important health, safety and environmental information

pH-value undiluted:	Not detected
Boiling point/boiling range (°C):	165
Melting point/melting range (°C):	Not detected
Flash point (°C):	40 (TCC)
Minimum limit of explosion:	n.a.
Maximum limit of explosion:	n.a.
Vapour pressure:	2 mm Hg (20°C)
Density (g/ml):	0,851 g/cm ³ (20°C)
Water solubility:	Insoluble
Vapour density (air = 1):	4,8
Viscosity:	Water

10. STABILITY AND REACTIVITY

Conditions to avoid

See point 7

Stable when handled and stored correctly.

Heating, open flame, ignition sources

Materials to avoid

See point 7

Avoid contact with strong oxidizing agents.

Avoid contact with strong alkalis.

Avoid contact with strong acids.

Hazardous decomposition products

See point 5.3

11. TOXICOLOGICAL INFORMATION

Acute toxicity and immediate effects

Ingestion, LD50 rat oral (mg/kg):	See point 15.
Inhalation, LC50 rat inhal.(mg/l/4h):	n.av.
Skin contact, LD50 rat dermal (mg/kg):	Irritant
Eye contact:	Irritant

Delayed and chronic effects

Sensitization:	Yes (skin contact)
Carcinogenicity:	n.c.
Mutagenicity:	n.c.
Reproductive toxicity:	n.c.
Narcosis:	n.c.

Further information

Classification according to calculation procedure.

The following may occur:

Irritation of the respiratory tract

Headaches

Dizziness

Effects/damages the central nervous system

Unconsciousness

With long-term contact:

Product removes fat.

Dermatitis (skin inflammation)

Ingestion:
 Lung damage
 Oedema of the lungs

12. ECOLOGICAL INFORMATION

Persistence and degradability:	n.av.
Behaviour in sewage plants:	Special pretreatments are necessary.
Aquatic toxicity:	See point 2.
Ecological toxicity:	n.av.
Mobility:	Product is slightly volatile.
Accumulation:	n.av.
Results of PBT assessment	
n.av.	
Other adverse effects:	n.av.

13. DISPOSAL CONSIDERATIONS

13.1. for the material / preparation / residue

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of.
 EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.
 Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)

07 01 04 other organic solvents, washing liquids and mother liquors

14 06 03 other solvents and solvent mixes

Recommendation:

Pay attention to local and national official regulations

Implement substance recycling.

E.g. suitable incineration plant.

13.2 for contaminated packing material

See point 13.1

Pay attention to local and national official regulations

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Do not perforate, cut up or weld uncleaned container.

Residues may present a risk of explosion.

14. TRANSPORT INFORMATION

General statements

UN-Number: 2319

Road/Rail-transport (ADR/RID)

Class/packing group: 3/III

UN 2319 TERPENE HYDROCARBONS, N.O.S.

Classification code: F1

LQ: 7

Tunnel restriction code: D/E



Transport by sea

IMDG-code: 3/III (class/packing group)

EmS: F-E, S-D

Marine Pollutant: Yes

TERPENE HYDROCARBONS, N.O.S.(PINANES)



Transport by air

IATA: 3/-/III (class/secondary danger/packing group)

Terpene hydrocarbons, n.o.s.



Additional information:

Danger code and packing code on request.

15. REGULATORY INFORMATION

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Classification according to Dangerous Product Regulations incl. EC Directives (67/548/EEC and 1999/45/EC)



Symbols: Xn/N

Indications of danger:

R-phrases:

10 Flammable.

36/38 Irritating to eyes and skin.

43 May cause sensitization by skin contact.

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

65 Harmful: may cause lung damage if swallowed.

S-phrases:

(2) Keep out of the reach of children.

24 Avoid contact with skin.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

29/35 Do not empty into drains; dispose of this material and its container in a safe way.

37 Wear suitable gloves.

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

62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Additions:

EC number see point 3.

Hydrocarbons, terpene processing by-products

Observe restrictions:

Yes

Observe youth employment law (German regulation).

Observe law on protection of expectant mothers (German regulation).

Regulation (EC) No 1907/2006, Annex XVII.

VOC 1999/13/EC 845 g/l

16. OTHER INFORMATION

These details refer to the product as it is delivered.

Storage class VCI (Germany):

3 A

Revised points:

1 - 16 REACH

Legend:

n.a. = not applicable / n.v., k.D.v. = n.av. = not available / n.g. = n.c. = not checked

WEL = Workplace Exposure Limit EH40, TWA = Long-term exposure limit (8-hour TWA (= time weighted average) reference

period), STEL = Short-term exposure limit (15-minute reference period) / BMGV = Biological monitoring guidance value EH40

AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) / BGW = "Biologischer Grenzwert" (biological limit value, Germany)

VbF = Regulations for flammable liquids (Austria)

WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water

VOC = Volatile organic compounds / AOX = Adsorbable organic halogen compounds

VwVwS = Administrative Order relating to substances hazardous to water (Germany)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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