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1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade name: Brake Cleaner

Chemical characterization

A mixture of alifatic and oxygencontaining hydrocarbons.

Supplier

Americol B.V.

Sluispolderweg 33

1505 HJ Zaandam - The Netherlands

Telephone No. +31 (0)75 631 32 44

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Contact Person Rene Doornink

2 COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Hexane

Content (%Vol): 1 - 10

Symbol(s): Xn F+ N

CAS-, EINECS/EC-number: 110-54-3, 203-777-6

Risk phrase(s): R11, R38, R48/20, R51/53, R62, R65

Nafta

Content (%Vol): > 75

Symbol(s): Xn F N

CAS-, EINECS/EC-number: 64742-49-0, 265-151-9

Risk phrase(s): R11, R38, R51/53, R65, R67

Iso-propyl-alcohol

Content (%Vol): 10 - 25

Symbol(s): Xn F+

CAS-, EINECS/EC-number: 67-63-0, 200-661-7

Risk phrase(s): R11, R36, R67

3 HAZARDS IDENTIFICATION

Eyes

Exposure to dust may be irritating to the eyes.

Inhalation

Narcotic at high concentrations.

Ingestion

Harmful if swallowed.

Risk phrase(s)

R11 : Highly flammable.

R36 : Irritating to eyes.

R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 : Harmful: may cause lung damage if swallowd.

4 FIRST AID MEASURES

Eye contact

Flushing for 15 minutes until irritation subsides.

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=====

If irritation persists, seek medical attention.

Skin contact

Wash contaminated area thoroughly with soap and water. Remove impregnated clothing.

Inhalation

Remove to fresh air.

Ingestion

Do not induce vomiting due to aspiration hazards. Seek medical advice.

5 FIRE FIGHTING MEASURES

Suitable extinguishing media
Carbon dioxide.
Fire-extinguishing powder.
Foam

Never use as an extinguishing media
Never use water.

Decomposition product(s)
Carbonoxide (COx), water (H2O).

Protective measures firefighters
Fire will produce dense black smoke. Use self-contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

Personel protective measures
Consumption of food and beverage should be avoided in work areas where hydrocarbons are present.

Environmental measures
This product should not be allowed to enter drainsand water courses.

7 HANDLING AND STORAGE

Handling
Store in a dry and cool place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye protection
Wear eye protection if material is handled such that it could be sprayed or splashed into the eyes.

Skin and body protection
Skin protection is not required under conditions of normal use.

Hand protection
Wear suitable gloves (PVC or rubber).

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Respiratory protection
Provide adequate ventilation.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid
Colour : Colourless
Odour : Characteristic
Solubility in water : Not soluble in water.
Solubility in : Soluble in hydrocarbons.

Meltingpoint (°C) : -
Boilingpoint (°C) : 80
Flashpoint (°C) : -19
Auto ignition temp (°C) : >200
Vapour pressure (mmHg) : 43
Density 20°C : 0.72
pH 100% : -
Viscosity at 20°C (cP) : -
Conductivity (µS) : -
Evaporation rate (n-butylac.= 1): -
Explosion limits (%Vol.) : 2.0 - 12.0 %V

10 STABILITY AND REACTIVITY

Conditions to avoid
Store in accordance with local/national regulations.

11 TOXICOLOGICAL INFORMATION

Toxicity (Oral/Dermal) LD50 > 2000 mg/kg

12 ECOLOGICAL INFORMATION

After a longer adaption period, the product is biodegradable.
Harmful to aquatic organisms.

13 DISPOSAL CONSIDERATIONS

All disposals must comply with federal, state, and local regulations.

14 TRANSPORT INFORMATION

Description goods
A mixture of alifatic and oxygencontaining hydrocarbons.

Description ADR goods
Flammable liquid, n.o.s. (vapour pressure at 50°C not more
than 110 kPa). Mixture of SBP Spirit 80/110 and isopropanol.

Transport (Land) ADR/RID: 3,F1
Transport (Ship -> Channals) ADN/ADNR : -

Transport (Ship -> Sea) IMDG/GGVE : 3
Transport (Ship -> Sea) UN No. : 1993

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Transport (Ship -> Sea) Packing group : II
Transport (Ship -> Sea) EMS No. : F-E, S-E
Transport (Ship -> Sea) MFAG No. : -
Transport (Ship -> Sea) Marine pollutant: No

Transport (Air) IATA-DRG/ICAO-TI : 3
Transport (Air) Packing group : II

15 REGULATORY INFORMATION

Symbols: Xn F+
Risk and Safety phrases
R11 : Highly flammable.
R36 : Irritating to eyes.
R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 : Harmful: may cause lung damage if swallowd.
S16 : Keep away from sources of ignition - No smoking.
S23 : Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
S24/25 : Avoid contact with skin and eyes.
S33 : Take precautionary measures against static discharges.
S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

Local regulations
Waterhazardous class 2 (Environmental hazardous; Germany).

16 OTHER INFORMATION

Version : 02
This MSDS sheet is created on date : 04-08-2003
Last revision on date : 10-11-2003
This MSDS sheet was printed on date : 07-02-2005

This product should be stored, handeld and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties. It is in the users responsibility to satisfy himself as to the suitability and completeness of such information for is own particular use.