

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
 Article number : 77004  
 Product code : 770  
 Type of product : Technical product  
 Vaporizer : Aerosol

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

##### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial  
 For professional use only  
 Function or use category : Gasket Remover

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

BARDAHL NL - OCD NEDERLAND BV  
 Maxwellstraat 41  
 3316 GP Dordrecht - Nederland  
 T 0031 78 651 2322 - F 0031 78 617 4848  
[rjjonker@bardahl.nl](mailto:rjjonker@bardahl.nl) - [www.bardahl.nl](http://www.bardahl.nl)

#### 1.4. Emergency telephone number

Emergency number : +31 (0) 6 2908 2010  
 During office hours: 8.30 t/m 17:00 h

Country	Official advisory body	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 '+353 1 809 2166 (public, 8am - 10pm, 7/7)	

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aerosol, Category 1 H222;H229  
 Serious eye damage/eye irritation, Category 2 H319  
 Specific target organ toxicity — Single exposure, Category 3, Narcosis H336

Full text of H statements : see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS07

Signal word (CLP) : Danger

Hazardous ingredients : acetone, propan-2-one, propanone; 1-methoxy-2-propanol, monopropylene glycol methyl ether; n-butyl acetate

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Hazard statements (CLP)	: H222 - Extremely flammable aerosol H229 - Pressurised container: May burst if heated H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P251 - Do not pierce or burn, even after use P261 - Avoid breathing vapours, spray P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves, face protection, eye protection P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F P501 - Dispose of contents/container to a facility for the collection of hazardous or special waste P101 - If medical advice is needed, have product container or label at hand P102 - Keep out of reach of children P211 - Do not spray on an open flame or other ignition source
EUH-statements	: EUH066 - Repeated exposure may cause skin dryness or cracking

### 2.3. Other hazards

Other hazards. : Without adequate ventilation formation of explosive mixtures is possible.

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Regulation 648/2004 / EC concerning detergents : anionic surfactants <5%  
aliphatic hydrocarbons <5%  
Methylchloroisothiazolinone (and) Methylisothiazolinone

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
dimethyl ether (Note U)	(CAS No) 115-10-6 (EC no) 204-065-8 (EC index no) 603-019-00-8 (REACH-no) 01-2119472128-37	25 - 50	Flam. Gas 1, H220 Compressed gas, H280
acetone, propan-2-one, propanone	(CAS No) 67-64-1 (EC no) 200-662-2 (EC index no) 606-001-00-8 (REACH-no) 01-2119471330-49	10 - 25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
n-butyl acetate	(CAS No) 123-86-4 (EC no) 204-658-1 (EC index no) 607-025-00-1 (REACH-no) 01-2119485493-29	10 - 25	Flam. Liq. 3, H226 STOT SE 3, H336
1-methoxy-2-propanol, monopropylene glycol methyl ether	(CAS No) 107-98-2 (EC no) 203-539-1 (REACH-no) 01-2119457435-35	2.5 - 10	Flam. Liq. 3, H226 STOT SE 3, H336
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	(CAS No) 112-34-5 (EC no) 203-961-6 (EC index no) 603-096-00-8 (REACH-no) 01-2119457857-21	2.5 - 10	Eye Irrit. 2, H319
cyclohexanone	(CAS No) 108-94-1 (EC no) 203-631-1 (EC index no) 606-010-00-7	2.5 - 10	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332

Note U : When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : If you feel unwell, seek medical advice. Allow breathing of fresh air. Allow the victim to rest.  
First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

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- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Get immediate medical advice and attention.

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

- Symptoms/injuries : Shortness of breath, headaches, intoxication, dizziness, cough and nausea.

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

If swallowed or in case of vomiting, danger of entering the lungs. Observation of lung oedema and pneumonia.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Foam. Powder. Carbon dioxide.
- Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : High temperature may liberate toxic gases.
- Explosion hazard : May form flammable/explosive vapour-air mixture.

### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Wear a self contained breathing apparatus.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Eliminate every possible source of ignition.

#### 6.1.1. For non-emergency personnel

- Protective equipment : Wear proper protective equipment. Self-contained breathing apparatus when in close proximity to fire.
- Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Ventilate area.

### 6.4. Reference to other sections

See Heading 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapours are flammable. Good ventilation of the workplace required. Avoid contact with skin and eyes.
- Precautions for safe handling : Keep away from sources of ignition - No smoking. Provide good ventilation in process area to prevent formation of vapour. Do not expose to temperatures exceeding 50 °C/ 122 °F. Take precautionary measures against static discharge. Do not spray on an open flame or other ignition source. Container under pressure. Do not drill or burn even after use. Wear suitable respiratory equipment.

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Government regulations on storing packagings with pressurized containers must be observed. Store in a dry, cool place.
- Incompatible materials : Direct sunlight. Heat sources.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

<b>dimethyl ether (115-10-6)</b>		
EU	Local name	Dimethylether

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dimethyl ether (115-10-6)		
EU	IOELV TWA (mg/m <sup>3</sup> )	1920 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	1000 ppm
acetone, propan-2-one, propanone (67-64-1)		
EU	Local name	Acetone
EU	IOELV TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	500 ppm
1-methoxy-2-propanol, monopropylene glycol methyl ether (107-98-2)		
EU	Local name	1-Methoxypropanol-2
EU	IOELV TWA (mg/m <sup>3</sup> )	375 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	100 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	568 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	150 ppm
EU	Notes	Skin
cyclohexanone (108-94-1)		
EU	Local name	Cyclohexanone
EU	IOELV TWA (mg/m <sup>3</sup> )	40.8 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	10 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	81.6 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	20 ppm
EU	Notes	Skin

### 8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure. Gloves. Protective goggles.
Hand protection	: Wear suitable gloves resistant to chemical penetration. neoprene/butyl rubber. Recommended thickness of the material: $\geq 0.7$ mm. Penetration time of glove material: $\geq 10$ min. Wear suitable gloves tested to EN374
Eye protection	: Chemical goggles or safety glasses. Use eye protection to EN 166, designed to protect against liquid splashes
Skin and body protection	: Wear suitable protective clothing. EN 13034
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. High gas/vapour concentration: gas mask with filter type AX



Other information	: Remove contaminated clothing immediately. Keep away from food, drink and animal feedingstuffs. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid contact with skin and eyes.
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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Aerosol.
Colour	: white.
Odour	: Acetone.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: $> 200$ °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Extremely flammable gas

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Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.76766 g/cm <sup>3</sup>
Solubility	: Practically not miscible. Water: 1.7 % Organic solvent:96.4%
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Explosive vapour/air mixtures may be formed. Product is not explosive.
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

VOC content : 749.8 g/l

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

No decomposition if used according to specifications.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known.

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Irritating. vapours work intoxicating

<b>dimethyl ether (115-10-6)</b>	
LC50 inhalation rat (mg/l)	308 mg/l/4h
<b>acetone, propan-2-one, propanone (67-64-1)</b>	
LD50 oral rat	5800 mg/kg
LD50 dermal rabbit	7800 mg/kg
LC50 inhalation rat (mg/l)	> 20 mg/l/4h
<b>1-methoxy-2-propanol, monopropylene glycol methyl ether (107-98-2)</b>	
LD50 oral rat	5660 mg/kg
LD50 dermal rabbit	13000 mg/kg
LC50 inhalation rat (mg/l)	6 mg/l/4h
<b>2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (112-34-5)</b>	
LD50 oral rat	5660 mg/kg
LD50 dermal rabbit	4000 mg/kg
LC50 inhalation rat (mg/l)	> 29 mg/l/4h
<b>cyclohexanone (108-94-1)</b>	
LD50 oral rat	1535 mg/kg
LD50 dermal rabbit	948 mg/kg
LC50 inhalation rat (mg/l)	8000 mg/l/4h
<b>n-butyl acetate (123-86-4)</b>	
LD50 oral rat	13100 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 21 mg/l/4h

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Skin corrosion/irritation	: No irritant effect
Serious eye damage/irritation	: Irritating
Respiratory or skin sensitisation	: No sensitisation responses were observed
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

**77004**

Vaporizer

Aerosol

## SECTION 12: Ecological information

### 12.1. Toxicity

#### acetone, propan-2-one, propanone (67-64-1)

EC50 Daphnia 1 8800 mg/l

#### 2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (112-34-5)

LC50 other aquatic organisms 1 1300 mg/l

EC50 Daphnia 1 100 mg/l (EU Method C.2)

EC50 96h algae (1) >= 100 mg/l

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

**77004**

Ecology - soil

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. danger for water: small. Prevent entry to sewers and public waters.

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

European List of Waste (LoW) code : 15 01 04 - metallic packaging  
16 05 04\* - gases in pressure containers (including halons) containing dangerous substances

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

UN-No. (ADR) : 1950

UN-No. (IMDG) : 1950

UN-No. (IATA) : 1950

UN-No. (ADN) : 1950

UN-No. (RID) : 1950

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : AEROSOLS

Proper Shipping Name (IMDG) : Not applicable

Proper Shipping Name (IATA) : Not applicable

Proper Shipping Name (ADN) : Not applicable

Proper Shipping Name (RID) : Not applicable

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Transport document description (ADR)	: UN 1950 AEROSOLS (Aerosols, Flammable), 2.1, (D)
Transport document description (IMDG)	: UN 1950 , 2
Transport document description (IATA)	: UN 1950 , 2.1
Transport document description (ADN)	: UN 1950 , 2
Transport document description (RID)	: UN 1950 , 2.1

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR)	: 2.1
Danger labels (ADR)	: 2.1



#### IMDG

Transport hazard class(es) (IMDG)	: 2
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#### IATA

Transport hazard class(es) (IATA)	: 2.1
Hazard labels (IATA)	: 2.1



#### ADN

Transport hazard class(es) (ADN)	: 2
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#### RID

Transport hazard class(es) (RID)	: 2.1
Danger labels (RID)	: 2.1



### 14.4. Packing group

Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable

### 14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR)	: 5F
Special provisions (ADR)	: 190, 327, 344, 625
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E0

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Transport category (ADR) : 2  
Tunnel restriction code (ADR) : D

### - Transport by sea

EmS-No. (Fire) : F-D  
EmS-No. (Spillage) : S-U

### - Air transport

No data available

### - Inland waterway transport

No data available

### - Rail transport

No data available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions  
Contains no substance on the REACH candidate list  
Contains no REACH Annex XIV substances

VOC content : 749.8 g/l

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No

## SECTION 16: Other information

Indication of changes:

	Acute toxicity - comment	Added	
	Regulation 648/2004 / EC concerning detergents	Added	
2.3	Other hazards.	Added	
3	Composition/information on ingredients	Modified	
4.1	First-aid measures general	Removed	
4.2	Symptoms/injuries	Added	
4.3	Other medical advice or treatment	Added	
5.3	Protection during firefighting	Modified	
6.4	Reference to other sections (8, 13)	Modified	
8.2	Hand protection	Modified	
8.2	Eye protection	Modified	
8.2	Skin and body protection	Added	
9.1	Solubility in water	Added	
9.2	VOC content	Added	
15.1	VOC content	Added	



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Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : Abbreviations and acronyms:

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail  
ICAO: International Civil Aviation Organization  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent.

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Compressed gas	Gases under pressure : Compressed gas
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1	Flammable gases, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H220	Extremely flammable gas
H222	Extremely flammable aerosol
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H229	Pressurised container: May burst if heated
H280	Contains gas under pressure; may explode if heated
H319	Causes serious eye irritation
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
EUH066	Repeated exposure may cause skin dryness or cracking

SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*