

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 30.04.2018

Revision: 26.04.2018

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

· **1.1 Product identifier**

· **Trade name:** Methanol

· **Article number:** 1368

· **CAS Number:**

67-56-1

· **EC number:**

200-659-6

· **Index number:**

603-001-00-X

· **Registration number** 01-2119433307-44-XXXX

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**

Only for the use of professionals users

· **Life cycle stages**

IS Use at industrial Sites

M Manufacture

F Formulation or re-packing

PW Widespread use by professional workers

· **Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU9 Manufacture of fine chemicals

SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU24 Scientific research and development

· **Product category**

PC19 Intermediate

PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents

PC21 Laboratory chemicals

PC37 Water treatment chemicals

· **Process category**

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4 Chemical production where opportunity for exposure arises

PROC5 Mixing or blending in batch processes

PROC7 Industrial spraying

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC10 Roller application or brushing

PROC13 Treatment of articles by dipping and pouring

PROC15 Use as laboratory reagent

· **Environmental release category**

ERC1 Manufacture of the substance

ERC2 Formulation into mixture

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC6a Use of intermediate

ERC6b Use of reactive processing aid at industrial site (no inclusion into or onto article)

· **Application of the substance / the mixture**

Chemical for research, development, manufacturing, laboratory chemical for analysis.

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· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Biosolve Chimie
 20 Rue Roger Husson, 57260 Dieuze, France
 Tel: 1 33 3 878 675 80/81/82/83/84/85
 Email: info@biosolvechimie.com

Biosolve B.V.
 Leenderweg 78, 5555 CE Valkenswaard, the Netherlands.
 Tel: 1 31-(0)40-2071300
 Fax: 1 31-(0)40-2048537
 Email: info@biosolve-chemicals.com

· **Further information obtainable from:** Product safety department.

· **1.4 Emergency telephone number:**

For emergency telephone numbers of the poisons centers in Europe please use this link: <http://www.eapcct.org/>

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS06 skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 3 H311 Toxic in contact with skin.

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 health hazard

STOT SE 1 H370 Causes damage to organs.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS02



GHS06



GHS08

· **Signal word Danger**

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· Hazard statements

- H225 *Highly flammable liquid and vapour.*
- H301+H311+H331 *Toxic if swallowed, in contact with skin or if inhaled.*
- H370 *Causes damage to organs.*

· Precautionary statements

- P301 \ P310 *IF SWALLOWED: Immediately call a POISON CENTER/ doctor.*
- P330 *Rinse mouth.*
- P303 \ P361 \ P353 *IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].*
- P361 \ P364 *Take off immediately all contaminated clothing and wash it before reuse.*
- P405 *Store locked up.*
- P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

· 2.3 Other hazards
· Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.1 Chemical characterisation: Substances

- **CAS No. Description**
67-56-1 Methanol
- **Identification number(s)**
- **EC number:** 200-659-6
- **Index number:** 603-001-00-X

SECTION 4: First aid measures

· 4.1 Description of first aid measures
· General information:

*Immediately remove any clothing soiled by the product.
Remove breathing equipment only after contaminated clothing have been completely removed.
In case of irregular breathing or respiratory arrest provide artificial respiration.*

· After inhalation:

*Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.*

· After skin contact: *Immediately wash with water and soap and rinse thoroughly.*
· After eye contact: *Rinse opened eye for several minutes under running water. Then consult a doctor.*
· After swallowing: *Do not induce vomiting; call for medical help immediately.*
· 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media
· Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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- **5.2 Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
*Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.*
- **6.2 Environmental precautions:**
*Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.*
- **6.3 Methods and material for containment and cleaning up:**
*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.*
- **6.4 Reference to other sections**
*See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.*

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
*Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.*
- **Information about fire - and explosion protection:**
*Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.*
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** *Store in a cool location.*
- **Information about storage in one common storage facility:** *Not required.*
- **Further information about storage conditions:**
*Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.*
- **7.3 Specific end use(s)** *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** *No further data; see item 7.*

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8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:
67-56-1 Methanol

IOELV	Long-term value: 260 mg/m ³ , 200 ppm
	Skin

DNELs

67-56-1

Workers Skin contact Long-term systemic effects 40mg/kg BW/d
Workers Skin contact Acute systemic effects 40mg/kg BW/d
Workers Inhalation Long-term systemic effects 260 mg/m³
Workers Inhalation Long-term local effects 260 mg/m³
Workers Inhalation Acute systemic effects 260 mg/m³
Workers Inhalation Acute local effects 260 mg/m³
Consumers Skin contact Long-term systemic effects 8mg/kg BW/d
Consumers Skin contact Acute systemic effects 8mg/kg BW/d
Consumers Inhalation Long-term systemic effects 50 mg/m³
Consumers Inhalation Long-term local effects 50 mg/m³
Consumers Inhalation Acute systemic effects 50 mg/m³
Consumers Inhalation Acute local effects 50 mg/m³
Consumers Ingestion Long-term systemic effects 8mg/kg BW/d
Consumers Ingestion Acute systemic effects 8mg/kg BW/d
PNECs

67-56-1

Soil 23.5 mg/kg
Marine water 15.4 mg/l
Fresh water 154 mg/l
Fresh water sediment 570.4 mg/kg
Onsite sewage treatment plant 100 mg/kg
Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls
Personal protective equipment:
General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.
Respiratory protection:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Protection of hands:

Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:


Tightly sealed goggles

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
General Information
Appearance:

Form:	Fluid
Colour:	Colourless
Odour:	Alcohol-like
Odour threshold:	Not determined.

pH-value: Not determined.

Change in condition

Melting point/freezing point:	-98 °C
Initial boiling point and boiling range:	64.7 °C

Flash point: 11 °C

Flammability (solid, gas): Not applicable.

Ignition temperature: 455 °C

Decomposition temperature: Not determined.

Auto-ignition temperature: Not determined.

Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Explosion limits:

Lower:	5.5 Vol %
Upper:	44 Vol %

Vapour pressure at 20 °C: 128 hPa

Density at 20 °C: 0.79 g/cm³

Relative density: Not determined.

Vapour density: Not determined.

Evaporation rate: Not determined.

Solubility in / Miscibility with water:

Fully miscible.

Partition coefficient: n-octanol/water: Not determined.

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- **Viscosity:**
 - Dynamic:* Not determined.
 - Kinematic:* Not determined.
- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
Toxic if swallowed, in contact with skin or if inhaled.

· **LD/LC50 values relevant for classification:**

Oral	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)
Inhalative	LC50/4 h	3 mg/l (ATE)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
Causes damage to organs.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water

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Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

HP 3	Flammable
HP 5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 6	Acute Toxicity

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA** UN1230

· **14.2 UN proper shipping name**

· **ADR** UN1230 METHANOL
 · **IMDG, IATA** METHANOL

· **14.3 Transport hazard class(es)**

· **ADR**



· **Class** 3 (F+1) Flammable liquids.

· **Label** 3+6.1

· **IMDG**



· **Class** 3 Flammable liquids.

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· Label	3/6.1
· IATA	
 	
· Class	3 Flammable liquids.
· Label	3 (6.1)
· 14.4 Packing group · ADR, IMDG, IATA	II
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Category · Stowage Code	Warning: Flammable liquids. 336 3-06 B SW2 Clear of living quarters.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category · Tunnel restriction code	2 D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	11. Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1230 METHANOL, 3 (6.1), II

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02 GHS06 GHS08

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- **Signal word** *Danger*
- **Hazard statements**
 - H225 *Highly flammable liquid and vapour.*
 - H301+H311+H331 *Toxic if swallowed, in contact with skin or if inhaled.*
 - H370 *Causes damage to organs.*
- **Precautionary statements**
 - P301 \ P310 *IF SWALLOWED: Immediately call a POISON CENTER/ doctor.*
 - P330 *Rinse mouth.*
 - P303 \ P361 \ P353 *IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].*
 - P361 \ P364 *Take off immediately all contaminated clothing and wash it before reuse.*
 - P405 *Store locked up.*
 - P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** *Substance is listed.*
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** *500 t*
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** *5,000 t*
- **REGULATION (EC) No 1907/2006 ANNEX XVII** *Conditions of restriction: 3, 40*
- **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has been carried out.*

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** *Product safety department*
- **Contact:** *Product safety department*
- **Abbreviations and acronyms:**
 - RID: *Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*
 - ICAO: *International Civil Aviation Organisation*
 - ADR: *Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*
 - IMDG: *International Maritime Code for Dangerous Goods*
 - IATA: *International Air Transport Association*
 - GLS: *Globally Harmonised System of Classification and Labelling of Chemicals*
 - EINECS: *European Inventory of Existing Commercial Chemical Substances*
 - CAS: *Chemical Abstracts Service (division of the American Chemical Society)*
 - DNEL: *Derived No-Effect Level (REACH)*
 - PNEC: *Predicted No-Effect Concentration (REACH)*
 - LC50: *Lethal concentration, 50 percent*
 - LD50: *Lethal dose, 50 percent*
 - PBT: *Persistent, Bioaccumulative and Toxic*
 - vPvB: *very Persistent and very Bioaccumulative*
 - Flam. Liq. 2: *Flammable liquids – Category 2*
 - Acute Tox. 3: *Acute toxicity – Category 3*
 - STOT SE 1: *Specific target organ toxicity (single exposure) – Category 1*
- *** Data compared to the previous version altered.**

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Annex: Exposure scenario

- **Short title of the exposure scenario** Industrial use as an intermediate or as a process chemical
- **Sector of Use**
 - SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
 - SU9 Manufacture of fine chemicals
 - SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
 - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
 - SU24 Scientific research and development
- **Product category**
 - PC19 Intermediate
 - PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents
 - PC21 Laboratory chemicals
 - PC37 Water treatment chemicals
- **Process category**
 - PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
 - PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
 - PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
 - PROC4 Chemical production where opportunity for exposure arises
 - PROC5 Mixing or blending in batch processes
 - PROC7 Industrial spraying
 - PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
 - PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
 - PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
 - PROC10 Roller application or brushing
 - PROC13 Treatment of articles by dipping and pouring
 - PROC15 Use as laboratory reagent
- **Environmental release category**
 - ERC1 Manufacture of the substance
 - ERC2 Formulation into mixture
 - ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
 - ERC6a Use of intermediate
 - ERC6b Use of reactive processing aid at industrial site (no inclusion into or onto article)
- **Notes**
 - Do not use for private / domestic purposes (household).
 - The product is intended for professional use.
- **Description of the activities / processes covered in the Exposure Scenario**

67-56-1

 1. Used as chemical intermediate
 - Main User Groups : SU 3
 - Sectors of end-use : SU 3, SU9
 - Chemical product category : PC19
 - Process categories : PROC1, PROC2, PROC3, PROC4, PROC8b, PROC15
 - Environmental Release Categories : ERC1, ERC4, ERC6a
 2. Formulation of preparations
 - Main User Groups : SU 3
 - Sectors of end-use : SU 10
 - Process categories : PROC2, PROC3, PROC4, PROC8b, PROC9, PROC15
 - Environmental Release Categories : ERC2

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3. Industrial use of processing aids in processes and products, not becoming part of articles

Main User Groups : SU 3

Sectors of end-use : SU 3, SU9

Chemical product category : PC20, PC21

Process categories : PROC1, PROC2, PROC3, PROC4, PROC8b, PROC9, PROC10, PROC15

Environmental Release Categories : ERC4, ERC6b

4. Used as laboratory reagent

Main User Groups : SU 22

Sectors of end-use : SU 3, SU 22, SU24

Chemical product category : PC19, PC20, PC21

Process categories : PROC10, PROC15

Environmental Release Categories : ERC4, ERC6a, ERC6b

5. Surface treatment

Main User Groups : SU 3

Sectors of end-use : SU 3, SU9

Chemical product category : PC35

Process categories : PROC5, PROC7, PROC8a, PROC10, PROC13

Environmental Release Categories : ERC2, ERC4, ERC6a

• **Conditions of use**

• **Duration and frequency** 5 workdays/week.

• **Worker**

Application duration : > 4 h

Frequency of use : 220 days/year

• **Environment**

Indoor use

Do not allow contact to soil, surface water and ground water.

• **Physical parameters** See section 9 to the Safety Data Sheet.

• **Physical state** Fluid

• **Concentration of the substance in the mixture**

Raw material.

Covers the percentage of the substance in the product up to 100 %

• **Used amount per time or activity**

According to directions for use.

Covers the percentage of the substance in the product up to 100 %

• **Other operational conditions** Observe the general safety regulations when handling chemicals.

• **Other operational conditions affecting environmental exposure**

Observe section 6 of the Safety Data Sheet (Accidental release measures).

• **Other operational conditions affecting worker exposure**

Avoid contact with the skin.

Do not breathe gas/vapour/aerosol.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

Observe section 6 of the Safety Data Sheet (Accidental release measures).

• **Risk management measures**

• **Worker protection** Observe section 7.1 and 8.1-8.2 of the Safety Data Sheet

• **Organisational protective measures**

Deploy only trained chemical workers.

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Avoid contact with drinking water and / or food during application.

Ensure that activities are executed by specialists or authorised personnel only.

Ensure that the working area is organised, well lit and ventilated, with enough space to handle spilled product.

Consider section 4 of the Safety Data Sheet (First aid measures).

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

Provide sufficient washing facilities.

Provide emergency eye wash station and mark its location clearly.

• **Technical protective measures**

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

Use only in well ventilated areas.

• **Personal protective measures**

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8.

• **Environmental protection measures**

• **Water**

Do not allow to reach sewage system. Dispose of this product and its container at hazardous or special waste collection point.

• **Soil** Prevent contamination of soil.

• **Notes** In case of unintended release of the product: See section 6 of the Safety Data Sheet.

• **Disposal measures**

Disposal must be made according to official regulations.

Ensure that waste is collected and contained.

• **Disposal procedures**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

• **Waste type** Partially emptied and uncleaned packaging

• **Exposure estimation**

• **Worker (dermal)**

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

67-56-1 With local exhaust ventilation

PROC1 0.00686 mg/kg BW/d

PROC10 5.49 mg/kg BW/d

PROC13 2.74 mg/kg BW/d

PROC15 0.0686 mg/kg BW/d

PROC2 0.274 mg/kg BW/d

PROC3 0.137 mg/kg BW/d

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PROC4 1.37 mg/kg BW/d

PROC5 2.74 mg/kg BW/d

PROC7 8.57 mg/kg BW/d

PROC8a 2.74 mg/kg BW/d

PROC8b 2.74 mg/kg BW/d

PROC9 1.37 mg/kg BW/d

The calculated value is smaller than the DNEL.

Risk Characterization ratio <1

• **Worker (inhalation)**

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.

67-56-1 With local exhaust ventilation

PROC1 0.0133 mg/m³

PROC10 33.3 mg/m³

PROC13 33.3 mg/m³

PROC15 13.3 mg/m³

PROC2 3.33 mg/m³

PROC3 6.67 mg/m³

PROC4 13.3 mg/m³

PROC5 33.3 mg/m³

PROC7 33.3 mg/m³

PROC8a 33.3 mg/m³

PROC8b 10 mg/m³

PROC9 26.7 mg/m³

The calculated value is smaller than the DNEL.

Risk Characterization ratio <1

• **Environment**

A chemical safety assessment was performed according REACH Article 14(3), Annex I, sections 3 (Environmental Hazard assessment) and 4 (PBT/vPvB Assessment). As no hazard was identified, an exposure assessment and risk characterization is not necessary (REACH Annex I section 5.0).

• **Consumer** Not relevant for this Exposure Scenario.

• **Guidance for downstream users**

Please refer to the following documents: ECIIA Guidance on information requirements and chemical safety assessment Chapter R.12: Use descriptor system; ECIIA Guidance for downstream users; ECIIA Guidance on information requirements and chemical safety assessment Part D: Exposure Scenario Building, Part E: Risk Characterisation and Part G: Extending the SDS; VCI/Cefic REACH Practical Guides on Exposure Assessment and Communications in the Supply Chain; CEFIC Guidance Specific Environmental Release Categories (SPERCs).