



# Safety data sheet

## Glue dissolvent

Dated 31/10/2016, version 2

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

#### 1.1. Product identifier

Code: **3413016 / 34140**  
Product name: **Glue dissolvent**  
Chemical name and synonym: **ETHANOL**

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

Description/Use: **Dissolvent**

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

Company: MWM SRL  
Via Toscana, 2/A - 40069 Zola Predosa (BO) - Italy  
Tel. +39 051 6164811 - Fax +39 051 750686  
E-mail: mwm@mwmitalia.it - Website: www.mwmautomotive.com

### SECTION 2. Hazards identification

#### Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

#### Hazard classification and indication:

Flammable liquid, category 2	H225	Highly flammable liquid and vapour.
Eye irritation, category 2	H319	Causes serious eye irritation.

#### Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:

Danger

Hazard statements:

<b>H225</b>	Highly flammable liquid and vapour.
<b>H319</b>	Causes serious eye irritation.



# Safety data sheet

## Glue dissolvent

Dated 31/10/2016, version 2

Precautionary statements:

<b>P101</b>	If medical advice is needed, have product container or label at hand.
<b>P102</b>	Keep out of reach of children.
<b>P210</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
<b>P233</b>	Keep container tightly closed.
<b>P280</b>	Wear protective gloves / protective clothing / eye protection / face protection.
<b>P305+P351+P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>P501</b>	Dispose of contents / container according local laws.

### Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

## SECTION 3. Composition/information on ingredients

### Substances

Information not relevant

### Mixtures

Contains:

The full wording of hazard (H) phrases is given in section 16 of the sheet.

<b>Identification</b>	<b>x = Conc. %</b>	<b>Classification 1272/2008 (CLP)</b>
<b>ETHANOL</b>		
CAS 64-17-5	$94 \leq x < 98$	Flam. Liq. 2 H225, Eye Irrit. 2 H319
EC 200-578-6		
INDEX 603-002-00-5		
Reg. no. 01-2119457610-43-		
<b>METHYL ETHYL KETONE</b>		
CAS 78-93-3	$1,5 \leq x < 2$	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336
EC 201-159-0		
INDEX 606-002-00-3		
Reg. no. 01-2119457290-43		

## SECTION 4. First aid measures

### Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorized by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.  
For symptoms and effects caused by the contained substances, see section 11.

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

Information not available



# Safety data sheet

## Glue dissolvent

Dated 31/10/2016, version 2

### SECTION 5. Firefighting measures

#### Extinguishing media

##### SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

##### UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

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

##### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

#### Advice for firefighters

##### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

##### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

### SECTION 6. Accidental release measures

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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

#### Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

### SECTION 7. Handling and storage

#### Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

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

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

#### Specific end use(s)

Information not available



# Safety data sheet

## Glue dissolvent

Dated 31/10/2016, version 2

### SECTION 8. Exposure controls/personal protection

#### 8.1. Control parameters

Regulatory References:

FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
LTU	Lietuva	DĖL LIETUVOS HIGIENOS NORMOS HN 23:2007 CHEMINIŲ MEDŽIAGŲ 2007 m. spalio 15 d. Nr. V-827/A1-287
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r
EU	OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2016

#### ETHANOL

##### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
VLEP	FRA	1900	1000	9500	5000
WEL	GBR	1920	1000		
TLV	GRC	1900	1000		
RD	LTU	1000	500	1900	1000
NDS	POL	1900			
TLV-ACGIH				1884	1000

##### Predicted no-effect concentration - PNEC

Normal value in fresh water	0,96	mg/l
Normal value in marine water	0,79	mg/l
Normal value for fresh water sediment	3,6	mg/kg
Normal value for marine water sediment	2,9	mg/l
Normal value for water, intermittent release	2,75	mg/l
Normal value of STP microorganisms	580	mg/l
Normal value for the terrestrial compartment	0,63	mg/kg

##### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Chronic systemic	Effects on workers			
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				87 mg/kg bw/d				
Inhalation				114 mg/m3	1900 mg/m3	VND	VND	9500 mg/m3
Skin				206 mg/kg bw/d			VND	343 mg/kg

#### METHYL ETHYL KETONE

##### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
VLEP	FRA	600	200	900	300	SKIN
WEL	GBR	600	200	899	300	SKIN
TLV	GRC	600	200	900	300	



# Safety data sheet

## Glue dissolvent

Dated 31/10/2016, version 2

VLEP	ITA	600	200	900	300
RD	LTU	600	200	900	300
NDS	POL	450		900	
OEL	EU	600	200	900	300
TLV-ACGIH		590	200	885	300

Normal value in fresh water	55,8	mg/l
Normal value in marine water	55,8	mg/l
Normal value for fresh water sediment	284,74	mg/kg
Normal value for marine water sediment	284,7	mg/kg
Normal value for water, intermittent release	55,8	mg/l
Normal value of STP microorganisms	709	mg/l
Normal value for the terrestrial compartment	22,5	mg/kg

Oral	VND	31 mg/kg		
Inhalation	VND	106 mg/m3	VND	600 mg/m3
Skin	VND	412 mg/kg	VND	1161 mg/m3

#### Predicted no-effect concentration - PNEC

Normal value in fresh water	0,1	mg/l
Normal value in marine water	0,01	mg/l
Normal value for fresh water sediment	33,692	mg/kg
Normal value for marine water sediment	3369	mg/kg
Normal value for water, intermittent release	1	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	16127	mg/kg

#### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Effects on workers		Acute systemic	Chronic local	Chronic systemic
	Acute local	Acute systemic	Chronic local	Chronic systemic			
Oral							
Inhalation							15.748 mg/m3
Skin							8.932 mg/kg bw/d

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

When choosing risk management measures and operating conditions, consult the exposition scenarios attached.

Provide an emergency shower with face and eye wash station.



# Safety data sheet

## Glue dissolvent

Dated 31/10/2016, version 2

### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

For information on controlling environmental exposure, see the exposure scenarios attached to this safety datasheet.

## SECTION 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance	liquid
Colour	
Odour	
Odour threshold	18,8 mg/m <sup>3</sup>
pH	7
Melting point / freezing point	-114 °C
Initial boiling point	78 °C
Boiling range	Not available
Flash point	13 °C
Evaporation Rate	Not available
Flammability of solids and gases	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	2,5 % (V/V)
Upper explosive limit	13,5 % (V/V)
Vapour pressure	Not available
Vapour density	Not available
Relative density	0,810
Solubility	Not available
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	363 °C
Decomposition temperature	Not available
Viscosity	1,2 mPas @20°C
Explosive properties	not applicable
Oxidising properties	not applicable

### Other information

Total solids (250°C / 482°F)	0,16 %
VOC (Directive 2010/75/EC) :	96,84 % - 784,40 g/litre
VOC (volatile carbon) :	50,71 % - 410,78 g/litre
State	Liquid
Water-Solubility	Totally soluble
Lipid solubility	In widespread organic solvents



# Safety data sheet

## Glue dissolvent

Dated 31/10/2016, version 2

### SECTION 10. Stability and reactivity

#### Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

##### ETHANOL

May react dangerously if exposed to: strong oxidising agents.

##### METHYL ETHYL KETONE

Reacts with: light metals, strong oxidants. Attacks various types of plastic materials. Decomposes under the effect of heat.

#### Chemical stability

The product is stable in normal conditions of use and storage.

##### ETHANOL

Stable in normal conditions of use and storage °C.

##### METHYL ETHYL KETONE

Stable in normal conditions of use and storage °C.

#### Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

##### ETHANOL

Risk of explosion on contact with: alkaline metals, alkaline oxides, calcium hypochlorite, sulphur monofluoride, acetic anhydride, acids, concentrated hydrogen peroxide, perchlorates, perchloric acid, perchloronitrile, mercury nitrate, nitric acid, silver, silver nitrate, ammonia, silver oxide, ammonia, strong oxidising agents, nitrogen dioxide. May react dangerously with: bromoacetylene, chlorine acetylene, bromine trifluoride, chromium trioxide, chromyl chloride, fluorine, potassium tert-butoxide, lithium hydride, phosphorus trioxide, black platinum, zirconium (IV) chloride, zirconium (IV) iodide. Forms explosive mixtures with: air.

##### METHYL ETHYL KETONE

May form peroxides with: air, light, strong oxidising agents. Risk of explosion on contact with: hydrogen peroxide, nitric acid, sulphuric acid. May react dangerously with: oxidising agents, trichloromethane, alkalis. Forms explosive mixtures with: air.

#### Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

##### ETHANOL

Avoid exposure to: sources of heat, naked flames.

##### METHYL ETHYL KETONE

Avoid exposure to: sources of heat.

Avoid exposure to: naked flames.

#### Incompatible materials

##### ETHANOL

Incompatible with: mineral acids, oxidising agents.

##### METHYL ETHYL KETONE

Incompatible with: strong oxidants, inorganic acids, ammonia, copper, chloroform.



# Safety data sheet

## Glue dissolvent

Dated 31/10/2016, version 2

### Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

ETHANOL

In decomposition develops: carbon oxides.

## SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

### 11.1. Information on toxicological effects

METHYL ETHYL KETONE  
METHYL ETHYL KETONE

#### ACUTE TOXICITY

LC50 (Inhalation - vapours) of the mixture:LC50 (Inhalation - vapours) of the mixture:  
Not classified (no significant component)  
LC50 (Inhalation - mists / powders) of the mixture:LC50 (Inhalation - mists / powders) of the mixture:  
Not classified (no significant component)  
LD50 (Oral) of the mixture:LD50 (Oral) of the mixture:  
Not classified (no significant component)  
LD50 (Dermal) of the mixture:LD50 (Dermal) of the mixture:  
Not classified (no significant component)

ETHANOL

LD50 (Oral)LD50 (Oral)  
> 5000 mg/kg Ratto (Rat)  
LC50 (Inhalation)LC50 (Inhalation)  
> 50 mg/l/4h Ratto (Rat)

METHYL ETHYL  
KETONE LD50  
(Oral)LD50 (Oral) 2193  
mg/kg Ratto - Rat  
LD50 (Dermal)LD50 (Dermal)  
> 8050 mg/kg Coniglio - Rabbit  
LC50 (Inhalation)LC50  
(Inhalation)  
> 5000 ppm Ratto - Rat

SKIN CORROSION / IRRITATIONDoes not meet the classification criteria for this hazard classDoes not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATIONCauses serious eye irritationCauses serious eye irritation

RESPIRATORY OR SKIN SENSITISATIONDoes not meet the classification criteria for this hazard classDoes not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITYDoes not meet the classification criteria for this hazard classDoes not meet the classification criteria for this hazard class

CARCINOGENICITYDoes not meet the classification criteria for this hazard classDoes not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITYDoes not meet the classification criteria for this hazard classDoes not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSUREDoes not meet the classification criteria for this hazard classDoes not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSUREDoes not meet the classification criteria for this hazard classDoes not meet the classification criteria for this hazard class

ASPIRATION HAZARDDoes not meet the classification criteria for this hazard classDoes not meet the classification criteria for this hazard class



# Safety data sheet

## Glue dissolvent

Dated 31/10/2016, version 2

### SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

#### Toxicity

METHYL ETHYL KETONE

ETHANOL

LC50 - for Fish 13000 mg/l/96h Pesce Salmo gairdneri

EC50 - for Crustacea 12340 mg/l/48h Daphnia Magna

EC50 - for Algae / Aquatic Plants 275 mg/l/72h Chlorella vulgaris

Chronic NOEC for Crustacea > 10 mg/l Daphnia Magna

Chronic NOEC for Algae / Aquatic Plants 7900 mg/l chlamydomonas eugametos

METHYL ETHYL KETONE

LC50 - for Fish 2993 mg/l Pimephales promelas

EC50 - for Crustacea > 308 mg/l/48h Daphnia - Pesce (Fish): Leuciscus Doratus -

EC50 - for Algae / Aquatic Plants > 100 mg/l/72h Desmodesmus subspicatus

#### Persistence and degradability

METHYL ETHYL KETONE

ETHANOL

Solubility in water 1000 - 10000 mg/l

Rapidly biodegradable

METHYL ETHYL KETONE

Solubility in water > 10000 mg/l

Rapidly biodegradable

#### Bioaccumulative potential

METHYL ETHYL KETONE

ETHANOL

Partition coefficient: n-octanol/water -0,35

METHYL ETHYL KETONE

Partition coefficient: n-octanol/water 0,3

#### Mobility in soil

METHYL ETHYL KETONE

#### Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

#### Other adverse effects

Information not available



# Safety data sheet

## Glue dissolvent

Dated 31/10/2016, version 2

### SECTION 13. Disposal considerations

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### SECTION 14. Transport information

#### UN number

ADR / RID, IMDG, IATA: 1170

#### UN proper shipping name

ADR / RID: ETHANOL  
(ETHYL  
ALCOHOL) or  
ETHANOL  
IMDG: ETHANOL  
(ETHYL  
ALCOHOL) or  
ETHANOL  
IATA: ETHANOL  
(ETHYL  
ALCOHOL) or  
ETHANOL

#### Transport hazard class(es)

ADR / RID: Class: 3 Label: 3  
IMDG: Class: 3 Label: 3  
IATA: Class: 3 Label: 3



#### Packing group

ADR / RID, IMDG, IATA: II

#### Environmental hazards

ADR / RID: NO  
IMDG: NO  
IATA: NO

#### Special precautions for user

ADR / RID:	HIN - Kemler: 33	Limited Quantities: 1 L	Tunnel restriction code: (D/E)
IMDG:	Special Provision: - EMS: F-E, S-D	Limited Quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 60 L	Packaging instructions: 364



# Safety data sheet

## Glue dissolvent

Dated 31/10/2016, version 2

Pass.:

Maximum  
quantity: 5 L

Packaging  
instructions:  
353

Special Instructions:

A3, A58,  
A180

**Transport in bulk according to Annex II of Marpol and the IBC Code**

Information not relevant

## SECTION 15. Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso Category - Directive 2012/18/EC: P5c

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product  
Point 3 - 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 689/2008:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

### Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

ETHANOL

METHYL ETHYL KETONE

## SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:



Italy

# Safety data sheet

## Glue dissolvent

Dated 31/10/2016, version 2

Flam. Liq. 2	Flammable liquid, category 2
Eye Irrit. 2	Eye irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

Use descriptor system:

ERC	1	Manufacture of substances
ERC	2	Formulation of preparations
ERC	4	Industrial use of processing aids in processes and products, not becoming part of articles
ERC	6a	Industrial use resulting in manufacture of another substance (use of intermediates)
ERC	7	Industrial use of substances in closed systems
ERC	8a	Wide dispersive indoor use of processing aids in open systems
ERC	8d	Wide dispersive outdoor use of processing aids in open systems
ERC	9a	Wide dispersive indoor use of substances in closed systems
ERC	9b	Wide dispersive outdoor use of substances in closed systems
PC	1	Adhesives, sealants
PC	13	Fuels
PC	15	Non-metal-surface treatment products
PC	16	Heat transfer fluids
PC	17	Hydraulic fluids
PC	18	Ink and toners
PC	23	Leather tanning, dye, finishing, impregnation and care products
PC	24	Lubricants, greases, release products
PC	27	Plant protection products
PC	28	Perfumes, fragrances
PC	3	Air care products
PC	31	Polishes and wax blends
PC	34	Textile dyes, finishing and impregnating products; including bleaches and other processing aids
PC	35	Washing and cleaning products (including solvent based products)
PC	39	Cosmetics, personal care products
PC	4	Anti-Freeze and de-icing products
PC	8	Biocidal products (e.g. Disinfectants, pest control)
PC	9a	Coatings and paints, thinners, paint removers
PC	9c	Finger paints
PROC	1	Use in closed process, no likelihood of exposure
PROC	10	Roller application or brushing
PROC	11	Non industrial spraying
PROC	13	Treatment of articles by dipping and pouring
PROC	14	Production of preparations or articles by tableting, compression, extrusion, pelletisation
PROC	15	Use as laboratory reagent
PROC	16	Using material as fuel sources, limited exposure to unburned product to be expected
PROC	19	Hand-mixing with intimate contact and only PPE available
PROC	2	Use in closed, continuous process with occasional controlled exposure
PROC	20	Heat and pressure transfer fluids in dispersive, professional use but closed systems
PROC	3	Use in closed batch process (synthesis or formulation)
PROC	4	Use in batch and other process (synthesis) where opportunity for exposure arises
PROC	5	Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
PROC	7	Industrial spraying
PROC	8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
PROC	8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC	9	Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

## LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road

- CAS NUMBER: Chemical Abstract Service Number

- CE50: Effective concentration (required to induce a 50% effect)

- CE NUMBER: Identifier in ESIS (European archive of existing substances)

- CLP: EC Regulation 1272/2008

- DNEL: Derived No Effect Level

- EmS: Emergency Schedule

- GHS: Globally Harmonized System of classification and labeling of chemicals

- IATA DGR: International Air Transport Association Dangerous Goods Regulation

- IC50: Immobilization Concentration 50%



# Safety data sheet

## Glue dissolvent

Dated 31/10/2016, version 2

- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

### GENERAL BIBLIOGRAPHY

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
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  4. Regulation (EU) 2015/830 of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - ECHA website

### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

## Exposition Scenarios

Substance	ETHANOL
Scenario Title	ETANOLO
Revision nr.	1
File	1

Substance	METHYL ETHYL KETONE
Scenario Title	MEK
Revision nr.	1
File	2

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INDEX 606-002-00-3

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