

# METHYL ACETATE

## 1 IDENTIFICATION OF THE PRODUCT AND THE COMPANY

### 1.1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION:

Trade name: MAM

### 1.2 IDENTIFICATION OF THE COMPANY:

RAR Resin & Chemical Industries JLT  
11th Floor, Jumeirah Lake Towers, P.O. Box: 47381, Dubai UAE  
Tel: +971 4 4356516 / +971 4 4356517 Email: info@rarresin.com  
Fax: +971 4 4356518 Website: www.rarresin.com

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

Use of the Substance/ mixture : Raw material Industrial use

## 2 HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Classification as per Directive (67/548/EEC, 1999 / 45 / EC)

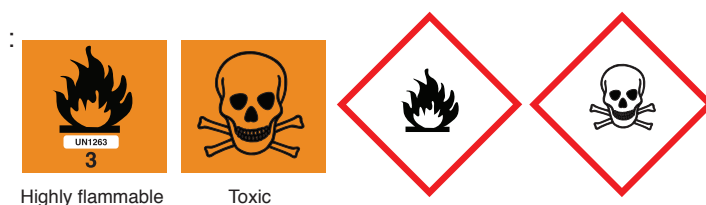
Highly flammable  
toxic

R11: Highly flammable  
R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.  
R67: Vapours may cause drowsiness and dizziness.

### 2.2 Label elements

Labelling according to EC Directives (1999/ 45/EC)

Hazards Pictograms



R-phrase

: R11 highly flammable  
R39/23/25 Toxic: danger of very serious irreversible.

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	:	effects through inhalation, in contact with skin and if swallowed.
	R67	: Vapours may cause drowsiness and dizziness
<b>S-phrases(s)</b>	S16	: Keep away from sources of ignition- No smoking.
	S38	: In case of insufficient ventilation, wear suitable respiratory equipment.
	S60	: This material and its container must be disposed of as hazardous waste.

### Hazardous components which must be listed on the label:

79-20-9	methyl acetate
67-56-1	methanol

### 2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT) this mixture contains no substance considered to be persistent nor very bioaccumulating (vPvB).  
 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.  
 Repeated exposure may cause skin dryness or cracking.

## 3 COMPOSITION / INFORMATION ON INGREDIENTS

### 3.2 Mixtures

**Chemical nature** : Solvent mixture  
**Hazardous components**

Chemical name	CAS-No EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
methyl acetate	79-20-9 201-185-2	F; R11 Xi; R36 R66 R67	Flam. Liq. 2; H225 Skin Irrit. 2; H319 STOT SE 3; H336	<= 81
methanol	67-56-1 200-659-6	F; R11 T; R23/24/25 T; R39/23/24/25	Flam. Liq 2; H225 Acute Tox. 3; H331 Acute Tox. 3; H331 Acute Tox. 3; H301 STOT SE 1; H370	< = 19
acetaldehyde	75-07-0 200-836-8	F+; R12 Carc. Cat3; R40 Xi; R36/37	Flam. Liq. 1; H224 Carc.2; H351 Eye Irrit.2; H319 STOT SE 3; H335	< 0.1

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For the full txt of the R- phrase mentioned in this Section, see Section 16  
For the full txt of the H- statements mentioned in this Section, see Section 16

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

General advice	: Move the victim to fresh air. : Get medical attention if symptoms occur : Show this safety data sheet to the doctor in attendance.
If inhaled	: Remove person to fresh air. If signs/ symptoms continue, get medical attention.
In case of skin contact	: Wash off immediately with soap and plenty of water. : Remove contaminated clothing. If irritation develops, get medical attention : Wash contaminated clothing before reuse.
In case of eye contact	: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.
If swallowed	: If accidentally swallowed obtain immediate medical attention : Do NOT induce vomiting. : Never give anything by mouth to an unconscious person.

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

Ingestion may provoke the following symptoms:

- Nausea
- Blindness

Inhalation may provoke the following symptoms:

- Dizziness
- Blindness

Skin contact may provoke the following symptoms:

- Blindness
- Irritation

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

No information available

For specialist advice physicians should contact the Poisons Information Service

## 5. FIRE FIGHTING MEASURE

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
<b>Unsuitable extinguishing media</b>	: No information available.

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## 5.2 Special hazards arising from the substance or mixture

Combustion products  
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke)

## 5.3 Advice for firefighters

Wear suitable protective equipment  
In the event of fire, wear self-contained breathing apparatus  
Wear a positive-pressure supplied-air respirator with full facepiece.  
Use water spray to cool unopened containers  
Prevent fire extinguishing water from contaminating surface water or the ground water system.  
Do not enter confined spaces unless adequately ventilated.

## 6. ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment

### 6.2 Environmental precautions:

The product should not be allowed to enter drains, water courses or the soil

### 6.3 Methods and materials for containment and cleaning up

Contain spillage, soak up with non-combustible absorbent materials, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13)  
Pick up and transfer to properly labelled containers.  
Large spills should be collected mechanically (remove by pumping) for disposal.  
Keep in suitable, closed containers for disposal.  
Dispose of as hazardous waste in compliance with local and national regulations  
Clean contaminated floors and objects thoroughly while observing environmental regulations.

### 6.4 Reference to other sections

For personal protection see section 8.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Wear personal protective equipment  
For personal protective see section 8  
Avoid inhalation, ingestion and contact with skin and eyes  
Do not use in areas without adequate ventilation  
Smoking, eating and drinking should be prohibited in the application area.

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

Store in original container  
Keep in properly labelled containers  
Keep away from sources of ignition- No smoking  
Keep container tightly closed in a dry and well-ventilated place  
Storage of flammable liquids

### 7.3 Specific end uses

Consult the technical guidelines for the use of this substance/ mixture

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## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

### 8.1 Control parameters

Components	CAS-No	Value	Control parameters	Update	Basis
Methyl acetate	79-20-9	STEL	250ppm 770 mg/m <sup>3</sup>	2007	EH40 (UK)
		TWA	200 ppm 616mg/m <sup>3</sup>	2007	EH40 (UK)
methanol	67-45-1	STEL	250ppm 333mg/m <sup>3</sup>	2007	EH40 (UK)
		TWA	200ppm 266 mg/m <sup>3</sup>	2007	EH40 (UK)
acetaldehyde	75-07-0	STEL	50ppm 92mg/m <sup>3</sup>	2007	EH40 (UK)
		TWA	20ppm 37mg/m <sup>3</sup>	2007	EH40 (UK)
		STEL	50ppm 91mg/m <sup>3</sup>	2010	TRGS 900 (DE)
		TWA	50ppm 91 mg/m <sup>3</sup>	2010	TRGS 900 (DE)

### DNEL

#### methyl acetate

: End use: Workers  
 Exposure routes: Skin contact  
 Potential health effects: Long term  
 88mg/kg

: End Use: Workers  
 Exposure routes: inhalation  
 Potential health effects: Long term  
 Value: 610 mg/m<sup>3</sup>

: End Use: Workers  
 Exposure routes: Inhalation  
 Potential health effects: Long term, Local effects  
 Value: 305 mg/m<sup>3</sup>

: End Use: Consumers  
 Exposure routes: skin contact  
 Potential health effects: Long term  
 Value: 44 mg/m<sup>3</sup>

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**: End Use: Consumers**

:End Use: Consumers  
Exposure routes: inhalation  
Potential health effects: Long term  
Value: 131 mg/m3

: End Use: Consumers  
Exposure routes: ingestion  
Potential health effects: Long term  
Value: 44 mg/m3

: End Use: Consumers  
Exposure routes: inhalation  
Potential health effects: Long term, Local effects  
Value: 152 mg/m3

**methanol**

: End Use: Workers  
Exposure routes: skin contact  
Potential health effects: Long term  
Value: 40 mg/m3

: End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long term  
Value: 260 mg/m3

: End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Acute effects  
Value: 40 mg/m3

: End use: Workers  
Exposure routes: inhalation  
Potential health effects: Acute effects  
Value: 260mg/kg

: End Use: Workers  
Exposure routes: inhalation  
Potential health effects: Acute effects, Local effects  
Value: 260mg/m3

: End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long term, Local effects  
value: 260 mg/m3

: End Use: Consumers  
Exposure routes: skin contact  
Potential health effects: Long term  
8 mg/kg

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: End Use: Consumers  
Exposure routes: inhalation  
Potential health effects: Long term  
Value: 50mg/m3

: End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Acute effects  
8mg/kg

: End Use: Consumers  
Exposure routes: inhalation  
Potential health effects: Acute effects, local effects  
Value: 50 mg/m3

: End Use: Consumers  
Exposure routes: inhalation  
Potential health effects: Long term, Local effects  
Value: 50 mg/m3

: End Use: Consumers  
Exposure routes: ingestion  
Potential health effects: Acute effects  
8 mg/kg

: End Use: Consumers  
Exposure routes: ingestion  
Potential health effects: long term  
8 mg/kg

**acetaldehyde**

: No data available

**PNEC  
methyl acetate**

: Fresh water  
Value: 0.12 mg/l

Marine water  
Value; 0.012 mg/l

Soil  
Value: 0.0416 mg/l

**methanol  
acetaldehyde**

: No data available

: No data available

## 8.2 Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas. Use with local exhaust ventilation.

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## Personal protective equipment

**Respiratory:** use respirator when performing operations involving potential exposure to vapour of the product. Respirator with a vapour filter (EN 14)

**Hand protection:** Protective gloves complying with EN 374. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

**Eye protection:** Safety glasses with side- shield conforming to EN 166

## Skin and body protection

- Wear suitable protective clothing.
- Skin should be washed after contact
- Remove and wash contaminated clothing before re-use

## Hygiene measures

- Wash hands before breaks and immediately after handling the product.
- When using do not eat, drink or smoke.

Protective measures: Ensure that eye flushing systems and safety showers are located close to the working place.

## General advice:

The product should not be allowed to enter drains, water courses or the soil.

## 9. PHYSICAL AND CHEMICAL

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	: liquid
<b>Colour</b>	: colourless
<b>Odour</b>	: ester- like
<b>Odour Threshold</b>	: not determined
<b>pH</b>	: not applicable
<b>Melting point/freezing point</b>	: No data available
<b>Boiling point</b>	: 54 deg C
<b>Flash point</b>	: - 14 deg C, (BS2000 part 170)
<b>Evaporation rate</b>	: not determined
<b>Flammability (solid, gas)</b>	: Highly determined
<b>Lower explosion limit</b>	: not determined
<b>Upper explosion limit</b>	: not determined
<b>Vapour pressure</b>	: 350 hPa, at 20 deg C
<b>Relatively density</b>	: 0.90
<b>Water solubility</b>	: soluble in all proportions
<b>Partition coefficient: n- octano/ water</b>	: not determined
<b>Ignition temperature</b>	: 460 deg C
<b>Thermal decomposition</b>	: No data determined
<b>Viscosity, dynamic</b>	: not determined
<b>Explosive properties</b>	: not determined
<b>Oxidizing properties</b>	: not determined

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## 9.2 Other information

No information available.

## 10. STABILITY REACTIVITY

10.1 Reactivity	: No dangerous reaction known under conditions of normal use.
10.2 Chemical stability	: Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	: Keep away from oxidizing agents, and acidic or alkaline products.
10.4 Conditions to avoid	: Heat, flames and sparks
10.5 Incompatible materials	: Acids - Strong bases - Oxidizing agents

## 10.6 Hazardous decomposition products

- Risk of ignition
- In case of fire hazardous decomposition products may be produced such as: Carbon Monoxide

## 11. TOXICOLOGICAL INFORMATION

**Information on toxicological effects:** No data is available on the product itself. Information given is based on data on the components and the toxicology of similar products.

### Components:

#### methyl acetate:

**Acute oral toxicity:** LD50: 6,482 mg/kg, rat (male), OECD test Guideline 401,  
No adverse effect has been observed in acute toxicity tests.

**Acute inhalation toxicity:** LC50: > 49.2 mg/l, 4 h, No adverse effects has been observed  
in acute toxicity tests.

**Acute dermal toxicity:** LD50: > 2,000 mg/kg, rat ( male and female), OECD test  
Guideline 402, No adverse effect has been observed in  
acute toxicity tests.

**Skin corrior/ irritation:** Rabbit, OECD Test Guideline 404, No skin irritation

**Serious eye damage/ eye:** Rabbit, Irritating eyes irritation

**Respiratory or skin sensitization** : Does not cause skin sensitization.  
Does not cause respiratory sensitization.

**Genotoxicity in vitro** : Ames test, with or without metabolic activation, Mutagenicity ( Salmonella typhimurium- reverse mutation assay), In vitro tests did not show mutagenic effects

**Genotoxicity in vitro** : In vivo micronucleus test, rat, Directive 67/548/EEC, Annex, B. 12., In vivo tests did not show mutagenic effects

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<b>Carcinogenicity</b>	: No data available
<b>Reproductive toxicity</b>	: No data available
<b>Teratogenicity</b>	: No data available
<b>STOT- single exposure</b>	: Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure
<b>STOT- repeated exposure</b>	: Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
<b>methanol:</b>	
<b>Acute oral toxicity</b>	: LD50: > 1,187 mg/kg, rat, toxic by ingestion
<b>Acute inhalation toxicity</b>	: LC50: 130.7 mg/l, 4 h, rat, Toxic by inhalation LC50; 128.2 mg/l, 4 h, rat, Toxic by inhalation LC50: > 115.9 mg/l, 4 h, rat, Toxic by inhalation LC50: 96.2 mg/l, 6 h, rat, Toxic by inhalation LC50; 87.5 mg/l, 6 h, rat, Toxic by inhalation
<b>Acute dermal toxicity</b>	: No data available
<b>Skin corrosion/ irritation</b>	: Rabbit, No skin irritation
<b>Serious eye damage/ eye irritation</b>	: Rabbit, No eye irritation
<b>Respiratory or skin sensitization</b>	: guinea pig, OECD Test Guideline 406 , Does not causeskin sensitization
<b>Genotoxicity in vitro</b>	: OECD test Guideline 453, Not classifiable as a human carcinogen
<b>Genotoxicity in vivo</b>	: In vivo test did not show mutagenic effects
<b>Carcinogenicity</b>	: mouse, OECD Test Guideline 453, Not classified as a human carcinogen rat, OECD Test Guideline 453, Not classifiable as human carcinogen
<b>Reproductive toxicity</b>	: rat, inhalation, No toxicity to reproduction : mouse, inhalation, No toxicity tor reproduction : rat, Inhalation, No toxicity to reproduction : mouse, Inhalation, No toxicity to reproduction
<b>Teratogenicity</b>	: No data available
<b>STOT- single exposure</b>	: Exposure routes: Ingestion : Target Organs: Eyes : Assessment: Causes damage to organs.
<b>STOT- repeated</b>	: Exposure routes: Inhalation : Target organs: Liver, Central nervous system, Heart : Assessment: Causes damage to organs through prolonged or repeated exposure.

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<b>Acetaldehyde :</b>	
<b>Acute oral toxicity</b>	: No data available
<b>Acute inhalation toxicity</b>	: No data available
<b>Acute dermal toxicity</b>	: No data available
<b>Skin corrosion/irritation</b>	: No data available
<b>Serious eye damage/ eye irritation</b>	: No data available
<b>Respiratory or skin sensitization</b>	: No data available
<b>Genotoxicity in Vitro</b>	: No data available
<b>Genotoxicity in vivo</b>	: No data available
<b>Carcinogenicity</b>	: No data available
<b>Reproductive toxicity</b>	: No data available
<b>STOT- single exposure</b>	: No data available
<b>STOT- repeated exposure</b>	: No data available

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Product:**

**Ecotoxicology Assessment**

**Acute aquatic toxicity** : This product has no known eco-toxicological effects.

**Methanol:**

**Toxicity to fish** : LC50; 15,400 mg/l, 96 h, Fish

**Toxicity to daphnia and other aquatic invertebrates** : No data available

**Toxicity to algae** : EC50: 22,000 mg/l, 96 h, OECD Test Guideline 201

**Toxicity to bacteria** : No data available

**Toxicity to fish ( Chronic toxicity)**

**Toxicity to daphnia and other aquatic invertebrates** : No data available

**(Chronic toxicity)**

### 12.2 Ecotoxicology Assesstment

**Acute aquatic toxicity** : This product has no known eco-toxicological effects.

**Acetaldehyde:**

**Toxicity to fish** : No data available

**Toxicity to daphnia and other aquatic invertebrates** : No data available

**Toxicity to algae** : No data available

**Toxicity to fish (Chronic toxicity)** : No data available

**Biodegradability**

**Toxicity to daphnia and other aquatic invertebrates** : No data available

**(Chronic toxicity)**

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### 12.3 Bioaccumulative potential

<b>Product:</b>	
<b>Bioaccumulation</b>	: No data available
<b>Components:</b>	
<b>methyl acetate:</b>	
<b>Bioaccumulation</b>	: Bioconcentration factor (BCF): 0.18, Bioaccumulation is unlikely
<b>Methanol</b>	
<b>Bioaccumulation</b>	: Bioconcentration factor (BCF); 0.2, Bioaccumulation is unlikely
<b>acetaldehyde</b>	
<b>Bioaccumulation</b>	: No data available

### 12.4 Mobility in Soil

<b>Product:</b>	
<b>Distribution among environmental compartments</b>	: No data available
<b>Components:</b>	
<b>methanol:</b>	
<b>Distribution among environmental compartments</b>	: Medium: Soil, No data available, not expected to adsorb on soil
<b>acetaldehyde:</b>	
<b>Distribution among environmental compartments</b>	: Medium: Soil, No data available

### 12.5 Results of PBT and vPvB assessment

<b>Product:</b>	This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).
<b>Components:</b>	
<b>Methyl acetate Assessments</b>	: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). this substance is not considered to be very persistent nor very bioaccumulating (vPvB)
<b>methanol:</b>	
<b>Assessment</b>	: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). this substance is not considered to be very persistent nor very bioaccumulating (vPvB)

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**acetaldehyde:**

assessment : No data available

**12.6 Other adverse effects****Product:**

This product has no known eco- toxicological effects.

**13 DISPOSAL CONSIDERATION****13.1 Waste treatment methods**

In accordance with local and national regulations. The product should not be allowed to enter drains, watercourses or the soil.

Contaminated packaging : In accordance with local and national regulations.

**14 TRANSPORT INFORMATION****14.1 UN number**

ADR : 1993  
RID : 1993  
IMDG : 1993

**14.2 Proper shipping name**

ADR : FLAMMABLE LIQUID, N.O.S. ( contains METHANOL, METHYL ACETATE)  
RID : FLAMMABLE LIQUID, N.O.S (contains METHANOL, METHYL ACETATE)  
IMDG : FLAMMABLE LIQUID, N.O.S( contains METHANOL, METHYL ACETATE)

**14.3 Transport hazard class**

ADR : 3  
RID : 3  
IMDG : 3

**14.4 Packing group**

ADR  
Packaging group : II  
Classification Code : F1  
Hazard identification No : 33  
Labels : 3  
Tunnel restriction No : (D/E)

RID  
Packaging group : II  
Classification Code : F1  
Hazard identification No : 33  
Labels : 3

IMDG  
packaging group : II  
Labels : 3

**DISCLAIMER**

This information contained in the data sheet is to the best of our knowledge correct and up to date. Under well-defined conditions. Its accuracy or suitability under the actual conditions of any independent use is not guaranteed and must be determined by the user. All advice given about this product is given in good faith. Since as we have no control over conditions of substrate, manufacturer and seller cannot accept any liability in connection with the use of the product relative to coverage, performance, injury, or damage, unless we specify in writing to do so. The information in this data sheet is subject to change without prior notice and it is the user responsibility to ensure it is current. For further information and advice please contact RAR RESIN Technical Service Department.

## 14.5 Environmental hazards

ADR		
Environmentally hazardous		: no
RID		
Environmentally hazardous		: no
IMDG		
Marine pollutant		: no

## 14.6 Special precaution for user

Dangerous goods

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

not applicable

## 15. REGULATORY INFORMATION

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

Other regulations	: The mixture is classified as dangerous in accordance with Directive 1999/45/EC.
	: May be harmful in contact with skin ( after often repeated exposure)
	: This mixture contains only ingredients which have been subject to a pre-registration according to Regulation (EC) No. 1907/ 2006 (REACH)

### 15.2 Chemical safety Assessment

Chemical safety Assessment have been carried out for these substances.

## 16. OTHER INFORMATION

Full text of R- phrases referred to under sections 2 and 3

R11	: Highly flammable
R12	: Extremely flammable
R23/24/25	: Toxic by inhalation, in contactwith skin and if swallowed.
R36	: Irritating to eyes
R35/37	: Irritating to eyes and respiratory system.
R 39/23/24/25	: Toxic; danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R40	: Limited evidence of a carcinogenic effect
R66	: repeated exposure may cause skin dryness or cracking
R67	: Vapours may cause drowsiness and dizziness

Full text of H- statements referred to under sections 2 and 3

H224	: Extremely flammable liquid and vapour
H225	: Highly flammable liquidand vapour
H 301	: Toxic if swallowed
H311	: Toxic in contact with skin.
H319	: Causes serious eye irritation

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<b>H331</b>	: Toxic if inhaled
<b>H335</b>	: may cause respiratory irritation
<b>H336</b>	: May cause drowsiness or dizziness
<b>H351</b>	: Suspected of causing cancer
<b>H370</b>	: Causes damage to organs.

Provide adequate information, instruction and training for operators. this safety sheet complies with the requirements of regulation (EC) No. 1907/ 2006

**This data sheet contains changes from the previous version in section(s);**

1. Identification of the substance/ mixture and of the company/ undertaking
2. hazards identification
3. Composition/ information on ingredients
4. First aid measures
5. Fire- fighting measures
6. Accidental release measures
7. Handling and storage
8. Exposure controls/ personal protection
9. Physical and chemical properties
10. Stability and reactivity
11. Toxicological information
12. Ecological information
13. Disposal considerations
14. Transport information
15. Regulatory information
16. Other information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage ,transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.