

Material Safety Data Sheet

Safety data sheet according to Regulation (EC) No. 1907/2006

Printing date 02/05/2011 / Revision date 25/07/2012 / Version No. 4

Product name: e.rims

SECTION 1 - Identification of the product and of the company/undertaking

1.1 Product identification: e.rims

Product trade name: e.rims

Product code: B01- B02- B03 -B04 -B05 B-06

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

Car refinishing products

1.3 Details of the supplier of the safety data sheet

ALKEMIA SRL
VIA SACCARDO, 37
20134 MILANO ITALY

E-mail address

info.alkemia@alice.it

1.4 Emergency phone

+39.2.21872267

SECTION - 2 Hazards Identification

Classification of the substance or mixture

According to Directive 67/548/EEC or 1999/45/EC

- Flammable.

- May cause sensitization by skin contact.

Label elements

The product is classified as hazardous pursuant to the provisions set forth in Directives 67/548/EEC and 1999/45/EC and/or 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

Danger Symbols F
R phrases 11-66-67

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

Label elements

Hazard labelling pursuant to Directives 67/548/EEC and 1999/45/EC and subsequent amendments and supplements

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R11

HIGHLY FLAMMABLE

R66

REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING

R67

VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS

S9

KEEP CONTAINER IN A WELL-VENTILATED PLACE

S16

KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING

S23

DO NOT BREATHE GAS/FUMES/VAPOUR/SPRAY

S33

TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES

S43

IN CASE OF FIRE, USE SUITABLE FIRE-FIGHTING EQUIPMENT (CO2/POWDER) NEVER USE WATER

S51

USE ONLY IN WELL-VENTILATED AREAS

Other hazards

Information not available

SECTION - 3 Composition/Information on Ingredients

Substances

Information not relevant

Mixtures

Contains:

Identification	Conc.%. Cant	Classification 67/548/EEC	Classification 1272/2008 (CLP)
XYLENE (MIXTURE OF ISOMERS)			
CAS. 1330-20-7	5 - 9	R10, Xn R20/21, Xi R38, Note C	Flam. Liq. 3 H226, Acute Tox. 4 H332, Acute Tox. 4 H312, Skin Irrit. 2 H315, Note C
EC215-535-7			
INDEX 601-022-00-9			
1-METHOXY-2-PROPANOL ACETATE			
CAS. 108-65-6	9 - 30	R10	Flam. Liq. 3 H226
EC 203-603-9			
INDEX 607-195-00-7			
ETHYLBENZENE			
CAS. 100-41-4	0,1 - 0,5	F R11, Xn R20	Flam. Liq. 2 H225, Acute Tox.4 H332
EC 202-849-4			
INDEX 601-023-00-4			

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1-METHOXY-2-PROPANOL			
CAS. 107-98-2	1 - 5	R10, R67	Flam. Liq. 3 H226 STOT SE 3 H336
EC 203-539-1			
INDEX 603-064-00-3			
4-METHYLPENTAN-2-ONE			
CAS. 108-10-1	1 - 5	R66, F R11, Xn R20, Xi R36/37	Flam. Liq. 2 H225, Acute Tox.4 H332, Eye Irrit. 2 H319, STOT SE 3 H335,EUH066
EC 203-603-9			
INDEX 607-195-00-7			
CYCLOHEXANONE			
CAS. 108-94-1	0,1 - 0,5	F R11, Xn R20	Flam. Liq. 2 H226, Acute Tox.4 H332
EC 203-631-1			
INDEX 606-010-00-7			
ETHYL ACETATE			
CAS. 141-78-6	1 - 5	R66, R67, FR11, Xi R36	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOTSE 3 H336,EUH066
EC 203-603-9			
INDEX 607-195-00-7			
N-BUTIL ACETATE			
CAS. 123-86-4	30 - 50	R10, R66, R67	Flam. Liq. 3 H226,STOT SE 3 H336, EUH066
EC 204-658-1			
INDEX 607-025-00-1			
ISOBUTYL ACTATE			
CAS. 110-19-0	5 - 9	R66, F R11, Note C	Flam. Liq. 2 H225, EUH066, Note C
EC 203-745-1			
INDEX 607-026-00-7			

T+ = Very Toxic(T+), T = Toxic(T), Xn = Harmful(Xn), C = Corrosive(C), Xi = Irritant(Xi), O = Oxidizing(O), E = Explosive(E), F+ = Extremely Flammable(F+), F = Highly Flammable(F)

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

SECTION 4 - First Aid Measures

Description of first aid measures

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

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If inhaled

Remove patient to fresh air and seek medical assistance. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place seek medical advice.

On skin contact

Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. If irritation persists, seek medical attention. Wash contaminated clothing before using them again.

On contact with eyes

Contact lenses should be removed. Hold eyelids open and flush with copious amounts of clean, fresh water for at least 15 minutes. Seek medical advice.

On ingestion

Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

Follow doctor's orders.

SECTION 5 - Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media

Foam (alcohol resistant), carbon dioxide, powders. For products leaks and spills that have not caught fire, nebulised water can be used to dispel flammable fumes and protect the individuals taking part in stemming the leak. Do not allow run-off from fire fighting to enter drains or water courses.

Unsuitable extinguishing media for safety reasons

Water jet Special hazards arising from the substance or mixture Fire will produce dense black smoke. Inhalation of dangerous decomposition products may cause serious damage to health.

Advice for fire-fighters

Special protective equipment
Appropriate breathing apparatus may be required.

Additional 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 and the remains of the fire according to applicable regulations.

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SECTION 06 - Accidental Release Measures

Personal precautions, protective equipment and emergency Procedures

Exclude sources of ignition from the leakage site. If there are no contraindications, spray solid products with water to prevent the formation of dust. Use breathing equipment if fumes or powders are released into the air. Block the leakage if there is no hazard. Do not handle damaged containers or the leaked product before donning appropriate protective gear. For information on risks for the environmental and health, respiratory tract protection, ventilation and personal protection equipment, see the other section of this sheet.

Environmental precautions

The product must not penetrate the sewers, surface water, ground water and neighbouring areas.

Methods and material for containment and cleaning up

Use inert absorbent material (sand, vermiculite, diatomeous earth, kieselguhr, etc.) to soak up leaked product. Collect the majority of the remaining material and deposit it in containers for disposal. If there are no contraindications, use jets of water to eliminate product residues. 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

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7 - Handling and Storage

Precautions for safe handling

Do not smoke while handling and use.

Conditions for safe storage, including any incompatibilities.

Store in a well ventilate place, keep far away from sources of heat, bright flames and sparks and other sources of ignition.

Specific end use(s)

Information not available

SECTION 8 - Exposure controls/personal protection

Control parameters

Name	Type	Country	TWA/8h mg/m3	ppm	STEL/15m in mg/m3	ppm	
XILENE (MIXTURE OF ISOMERS)	TLV-ACGIH			100		150	skin
	OEL	EU	221	50	442	100	skin
	OEL	IRL		50		100	Skin
	WEL	UK		50		100	Skin

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1-METHOXY-2-PROPANOL ACETATE							
	OEL	EU	275	50	550	100	skin
	OEL	IRL		50		100	Skin
	WEL	UK		50		100	Skin
ETHYLBENZENE	TLV- ACGIH			100		125	skin
	OEL	EU	442	100	884	200	skin
	OEL	IRL		100		125	Skin
	WEL	UK		100		125	Skin
1-METHOXI-2-PROPANOL	TLV- ACGIH			100		150	skin
	OEL	EU	375	100	568	150	
	OEL	IRL		100		300	Skin
	WEL	UK		100		150	Skin
4-METHYLPENTAN-2-ONE	TLV- ACGIH			50		75	
	OEL	EU	83	20	208	50	
	OEL	IRL		20		50	
	WEL	UK		50		100	
CYCLOEXANONE	TLV- ACGIH			20		50	skin
	OEL	EU	40,8	10	81,6	20	skin
	OEL	IRL		10		20	Skin
	WEL	UK		10		20	Skin
ETHYL ACETATE	TLV- ACGIH			400			
	OEL	IRL		400		400	
	WEL	UK		200		400	
N-BUTIYL ACETAT	TLV- ACGIH			150		200	
	OEL	IRL		150		200	
	WEL	UK		150		200	
ISOBUTYL ACETATE	TLV- ACGIH			150			
	OEL	IRL		150		187	
	WEL	UK		150		187	

Exposure Controls

As the use of adequate technical equipment must always take priority over personal protection equipment, make sure that the workplace is well aired through effective local aspiration or bad air vent. If such operation do not make it possible to keep the concentration of the product below the permitted workplace exposure thresholds a suitable respiratory tract protection must be use, See product label for hazard details during use. Ask your chemical substance suppliers for advice when choosing personal protection equipment. Personal protection equipment must comply with the rules in force indicated below.

HAND PROTECTION

Protect hands with category II (ref Directive 89/686/EEC and standard EN 374)work gloves, such as those in PVC, neoprene, nitril or equivalent. The

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following should be considered when choosing work glove material: degradation, breakage times and permeation. Work glove resistance to preparations should be checked before use, as it can be unpredictable. Gloves limit depends on the duration of exposure.

EYE PROTECTION

Wear protective airtight goggles (ref. standard EN 166)

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (ref. Directive 89/686/EEC and standard EN 344). Wash body with soap and water after removing overalls.

RESPIRATORY PROTECTION

If the threshold value for one or more of the substances present in the preparation for daily exposure in the workplace or to a fraction established by the company's prevention and protection service is exceeded, wear a mask with an AX or universal filter, the class (1,2or 3) of which must be chosen according to the limit concentration of use (ref. standard EN 141).

The use of breathing protection equipment, such as masks with organic vapour and dust/mist cartridges, is necessary in the absence of technical measures limiting worker exposure. The protection provided by masks is in any case limited.

If the substance in question is odourless or its olfactory threshold is higher than the relative exposure limit and in the event of an emergency, or when exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% volume, wear a full facer mask, half mask or mouthpiece (ref. standard EN 138).

An emergency eye washing and shower system must be provided.

SECTION 9 - Physical and chemical properties

Information on basic physical and chemical properties

Physical state	: liquid
Colour	: metallic grey
Odour	: specific
pH	: n.a.
Change in physical state	
Boiling temperature/range	: > 35 °C
Melting point/range	: n.a.
Distillation range	: n.a.
Flash point	: < 21°C
Evaporation rate	: n.a.
Flammability of solids and gases	: n.a.
Lower flammability limit	: n.a.
Upper flammability limit	: n.a.
Lower explosive limit	: n.a.
Upper explosive limit	: n.a.
Vapour pressure	: n.a.
Vapour density	: n.a.
Specific gravity	: n.a.
Solubility	: insoluble in water
Partition coefficient:	
n-octano/water	: n.a.

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Ignition temperature : n.a.
Decomposition temperature : n.a.
Viscosity : n.a.
Reactive Properties : n.a.

Other information

VOC (Directive 1999/13/EC) : 73,87%
VOC (Volatile carbon) : 46,39%

SECTION 10 - Stability and Reactivity**Reactivity**

Stable under recommended storage and handling conditions.

1-METHOXY-2-PROPANOL ACETATE: stable but with the air may slowly develop peroxides that explode with an increase in temperature

1-METHOXY-2-PROPANOL absorbs and dissolves in water and in organic solvents, dissolves various plastic materials; it is stable but with air it may slowly foam explosive peroxides.

4-METHYLPENTAN-2-ONE: reacts violently with light metals, such as aluminium; attacks different types of plastic.

ETHYL ACETATE: decomposes slowly into acetic and ethanol under the effect of light, air and water.

N-BUTYL ACETATE: decomposes readily with water, especially when warm.

ISOBUTYL ACETATE: decomposes under the effect of heat. Attacks various types of plastic material.

Chemical stability

The product is stable in normal conditions of use and storage

Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

XYLENE (MIXTURE OF ISOMERS): stable, but may develop violent reactions in the presence of strong oxidising agents such as sulphuric and nitric acids and perchlorates. May form explosive mixtures with the air.

1-METHOXY-2-PROPANOL ACETATE: may react violently with oxidising agents and strong acids and alkaline metals.

4-METHYLPENTAN-2-ONE: can react violently with oxidising agents. In the presence of air it forms peroxides. Forms explosive mixtures with air when hot.

ETHYL ACETATE: risk of explosion on contact with: metals, alkalis, hydrides, oleum. Can react violently with: fluoride, strong oxidising agents, chlorosulfuric acid, potassium tert-butoxide. Forms explosive mixtures with the air.

N-BUTYL ACETATE: risk of explosions on contact with: strong oxidising agents. Can react dangerously with alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with the air.

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Conditions to avoid

Avoid overheating, electrostatic discharge and all sources of ignition.

Hazardous decomposition product

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

SECTION 11 - Information on toxicological effects

This product may have a degreasing action on the skin, producing dryness and chapped skin after repeated exposure.

This product contains highly volatile substances, which may cause serious depression of the central nervous system (CNS) and have negative effects, such as drowsiness, dizziness, slow reflexes, narcosis.

XILENE(MIXTURE OF ISOMERS)

LC50 (Inhalation): 6350 ppm/4h Rat
LD50 (Oral): 3523 mg/kg Rat
LD50 (Dermal): 4350 mg/kg Rabbit

1-METHOXY-2-PROPANOL ACETATE

LD50 (Oral): 8350 mg/kg Rat
LD50 (Dermal): >5000 mg/kg Rat

1-METHOXY-2-PROPANOL

LC50 (Inhalation): 54,6 mg/l/4h Rat
LD50 (Oral): 5300 mg/kg Rat
LD50 (Dermal): 13000 mg/kg Rabbit

4 METHYLPENTAN-2-ONE

LC50 (Inhalation): 8,2 mg/l/4h Rat
LD50 (Oral): 2080 mg/kg Rat
LD50 (Dermal): >16000 mg/kg Rabbit

N-BUTYL-ACETATE

LC50 (Inhalation): 21,1 mg/l/4h Rat
LD50 (Oral): >6400 mg/kg Rat
LD50 (Dermal): >5000 mg/kg Rabbit

SECTION 12 - Ecological Information

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

SECTION 13 - Disposal consideration

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.

CONTAMINATED PACKAGING

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

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SECTION 14 - Transport Information

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

Road and rail transport

ADR/RID Class: 3 UN 1950
 Packing group: III
 Label: 3
 Nr. Kemler: 30
 Limited Quantity: LQ07
 Tunnel restriction code (D/E)
 Proper shipping name PAINT IN AEREOSOL
 Special Provision: 640D

Carriage by sea (shipping):

IMO Class: 3 UN 1950
 Packing group: III
 Label 3
 EMS F-E S-E
 Marine Pollutant NO
 Proper Shipping Name: PAINT IN AEREOSOL

Transport by air:

IATA: 3 UN 1950
 Packing Group: III
 Label: 3
 Cargo:
 Packaging instructions: 310 Q.ty max. 220L
 Special Instructions: A3, A72
 Proper shipping name: PAINT IN AEREOSOL

SECTION 15 - Regulatory Information

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

Seveso category 7B

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

Point 3 - 40

Substances in Candidate List (art. 59 REACH)

None

Substances subject to authorisation (Annex XVII REACH)

None

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Healthcare controls

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

SECTION 16 - Other information

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

Flam Liq.3	Flammable liquid, category 3
Acute Tox 4	Acute toxicity, category 4
Skin Irrit. 2	Skin irritation, category 2
Flam Liq. 2	Flammable liquid category 2
STOT SE 3	Specific target organ toxicity - single exposure category 3
Eye Irrit 2	Eye irritation, category 2
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H332	Harmful if inhaled
H312	Harmful in contact with skin
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H315	Causes skin irritation
H336	May cause drowsiness or dizziness
EUH066	Repeated exposure may cause skin dryness or cracking

Text of risks R phrases

R10
FLAMMABLE

R11
HIGHLY FLAMMABLE

R20/21
HARMFUL BY INHALATION AND IN CONTACT WITH SKIN

R36
IRRITATING TO EYES

R36/37
IRRITATION TO EYES AND RESPIRATORY SYSTEM

R38
IRRITATING TO SKIN

R66
REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING

R67
VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.