



Safety data sheet

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

1.1. Product identifier

Code: **OAC363G20**
Product name: **TRANSP. MATT ACRYLIC TOP COAT**

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

Intended use: **Paint for wood**

1.3. Details of the supplier of the safety data sheet

Name: **INDUSTRIA CHIMICA ADRIATICA S.P.A.**
Full address: **Via S. Pertini, 52**
District and Country: **62012 Civitanova Marche (MC) ITALY**
Tel.: **+39 0733 8080**
Fax: **+39 0733 808140**

e-mail address of the competent person responsible for the Safety Data Sheet: **icalab1@icaspa.com**

Product distribution by: **INDUSTRIA CHIMICA ADRIATICA S.p.A.**

1.4. Emergency telephone number

For urgent inquiries refer to: **Tel. + (39) 733 8080 Fax. + (39) 733 808140 (From Monday to Friday: 8.00 am - 6.00 pm)**

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

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

2.2. Label elements.

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

F



HIGHLY FLAMMABLE

R11 HIGHLY FLAMMABLE.
R66 REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.
R67 VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.

S 9 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 CHEMICAL POWDER, CO₂,FOAM, NEBULIZED WATER.
S51 USE ONLY IN WELL-VENTILATED AREAS.

Contains: **Methyl methacrylate**



SECTION 2. Hazards identification. ... / >>

2_Hydroxyethyl methacrylate

May produce an allergic reaction.

2.3. Other hazards.

Information not available.

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

| Identification. | Conc. %. | Classification 67/548/EEC. | Classification 1272/2008 (CLP). |
|-------------------------------------|------------|----------------------------------|---|
| n-butyl acetate | | | |
| CAS. 123-86-4 | 37,5 - 40 | R10, R66, R67 | Flam. Liq. 3 H226, STOT SE 3 H336, EUH066 |
| EC. 204-658-1 | | | |
| INDEX. 607-025-00-1 | | | |
| Reg. no. 01-2119485493-29-0007 | | | |
| Ethyl acetate | | | |
| CAS. 141-78-6 | 18,5 - 20 | R66, R67, F R11, Xi R36 | Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066 |
| EC. 205-500-4 | | | |
| INDEX. 607-022-00-5 | | | |
| Reg. no. 01-2119475103-46-XXXX | | | |
| Xylene (mixture of isomers) | | | |
| CAS. 1330-20-7 | 9 - 10,5 | R10, Xn R20/21, Xi R38, Note C | Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, Note C |
| EC. 215-535-7 | | | |
| INDEX. 601-022-00-9 | | | |
| Reg. no. 01-2119488216-32-0023 | | | |
| 1-methoxy-2-propanol acetate | | | |
| CAS. 108-65-6 | 3 - 3,5 | R10 | Flam. Liq. 3 H226 |
| EC. 203-603-9 | | | |
| INDEX. 607-195-00-7 | | | |
| Reg. no. 01-2119475791-29 | | | |
| Ethylbenzene | | | |
| CAS. 100-41-4 | 1,5 - 2 | F R11, Xn R20 | Flam. Liq. 2 H225, Acute Tox. 4 H332 |
| EC. 202-849-4 | | | |
| INDEX. 601-023-00-4 | | | |
| Reg. no. 01-2119489370-35-XXX | | | |
| Methyl methacrylate | | | |
| CAS. 80-62-6 | 0,35 - 0,4 | F R11, Xi R37/38, Xi R43, Note D | Flam. Liq. 2 H225, Skin Irrit. 2 H315, STOT SE 3 H335, Skin Sens. 1 H317, Note D |
| EC. 201-297-1 | | | |
| INDEX. 607-035-00-6 | | | |
| Ethanol | | | |
| CAS. 64-17-5 | 0,05 - 0,1 | F R11 | Flam. Liq. 2 H225 |
| EC. 200-578-6 | | | |
| INDEX. 603-002-00-5 | | | |
| Reg. no. 01-2119457610-43 | | | |

Note: Upper limit is not included into the range.

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

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), N = Dangerous for the Environment(N)

SECTION 4. First aid measures.

4.1. 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.



SECTION 4. First aid measures. ... / >>

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 authorised by a doctor.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

SECTION 5. Firefighting measures.

5.1. 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.

5.2. 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.

METHYL METHACRYLATE: heat may cause the product to polymerise, which could lead to explosion.

5.3. 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.

6.1. 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.

6.2. Environmental precautions.

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

6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. 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. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

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

SECTION 7. Handling and storage.

7.1. 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.



SECTION 7. Handling and storage. ... / >>

7.2. 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.

7.3. Specific end use(s).

See paragraph 1.2. For further information consult the technical data sheet.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References:
 United Kingdom

Éire
 OEL EU

TLV-ACGIH

EH40/2005 Workplace exposure limits. Containing the list of workplace exposure limits for use with the Control of Substances Hazardous to Health Regulations (as amended). Code of Practice Chemical Agent Regulations 2011.
 Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.
 ACGIH 2012

n-butyl acetate

Threshold Limit Value.

| Type | Country | TWA/8h | | STEL/15min | |
|------|---------|--------|-----|------------|-----|
| | | mg/m3 | ppm | mg/m3 | ppm |
| OEL | EU | | 150 | | 200 |
| TLV | | | 150 | | 200 |

Predicted no-effect concentration - PNEC.

| | | | |
|--|--|--------|-------|
| Normal value for the terrestrial compartment | | 0,0903 | mg/kg |
| Normal value in fresh water | | 0,18 | mg/l |
| Normal value in marine water | | 0,018 | mg/l |
| Normal value for fresh water sediment | | 0,981 | mg/kg |
| Normal value for marine water sediment | | 0,0981 | mg/kg |
| Normal value of STP microorganisms | | 35,6 | mg/l |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers. | | | | Effects on workers | | | |
|-------------------|-----------------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
| | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral. | | | 3,4 mg/kg | VND | | | | |
| Inhalation. | 859.7 mg/m3 | 859.7 mg/m3 | 12 mg/m3 | VND | 960 mg/m3 | 960 mg/m3 | 480 mg/m3 | 480 mg/m3 |
| Skin. | | | VND | 3,4 mg/kg | | | VND | 7 mg/kg |

Ethyl acetate

Threshold Limit Value.

| Type | Country | TWA/8h | | STEL/15min | |
|------|---------|--------|-----|------------|-----|
| | | mg/m3 | ppm | mg/m3 | ppm |
| OEL | EU | | 200 | | 400 |
| TLV | | 1500 | 400 | | |

Predicted no-effect concentration - PNEC.

| | | | |
|--|--|-------|-------|
| Normal value for the terrestrial compartment | | 0,24 | mg/kg |
| Normal value in fresh water | | 0,26 | mg/l |
| Normal value in marine water | | 0,026 | mg/l |
| Normal value for fresh water sediment | | 1,25 | mg/kg |
| Normal value for marine water sediment | | 0,125 | mg/kg |
| Normal value of STP microorganisms | | 650 | mg/l |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers. | | | | Effects on workers | | | |
|-------------------|-----------------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
| | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Inhalation. | 734 mg/m3 | 734 mg/m3 | 367 mg/m3 | 367 mg/m3 | 1468 mg/m3 | 1468 mg/m3 | 734 mg/m3 | 734 mg/m3 |
| Skin. | | | VND | 37 mg/kg | | | VND | 63 mg/kg |



SECTION 8. Exposure controls/personal protection. ... / >>

Xylene (mixture of isomers)

Threshold Limit Value.

| Type | Country | TWA/8h | | STEL/15min | | |
|------|---------|--------|-----|------------|-----|------|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| OEL | EU | 221 | 50 | 442 | 100 | SKIN |

A4, IBE

Predicted no-effect concentration - PNEC.

| | | |
|--|-------|-------|
| Normal value for the terrestrial compartment | 2,31 | mg/kg |
| Normal value in fresh water | 0,327 | mg/l |
| Normal value in marine water | 0,327 | mg/l |
| Normal value for fresh water sediment | 12,46 | mg/kg |
| Normal value for marine water sediment | 12,46 | mg/kg |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers. | | | | Effects on workers | | | |
|-------------------|-----------------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
| | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral. | | | VND | 1.6 mg/kg | | | | |
| Inhalation. | | | VND | 14.8 mg/m3 | 289 mg/m3 | 77 mg/m3 | 221 mg/m3 | 77 mg/m3 |
| Skin. | | | VND | 108 mg/kg | | | VND | 180 mg/kg/d |

1-methoxy-2-propanol acetate

Threshold Limit Value.

| Type | Country | TWA/8h | | STEL/15min | | |
|------|---------|--------|-----|------------|---------|------|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| TLV | | 275 | 50 | 550 (C) | 100 (C) | |
| OEL | EU | 275 | 50 | 550 | 100 | SKIN |

Predicted no-effect concentration - PNEC.

| | | |
|--|--------|-------|
| Normal value for the terrestrial compartment | 0,29 | mg/kg |
| Normal value in fresh water | 0,635 | mg/l |
| Normal value in marine water | 0,0635 | mg/l |
| Normal value for fresh water sediment | 3,29 | mg/kg |
| Normal value for marine water sediment | 0,329 | mg/kg |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers. | | | | Effects on workers | | | |
|-------------------|-----------------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
| | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral. | | | VND | 1,67 mg/kg | | | | |
| Inhalation. | | | VND | 33 mg/m3 | | | VND | 275 mg/m3 |
| Skin. | | | VND | 54,8 mg/kg | | | VND | 153,5 mg/kg |

Ethylbenzene

Threshold Limit Value.

| Type | Country | TWA/8h | | STEL/15min | | |
|------|---------|--------|-----|------------|-----|------|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| OEL | EU | 442 | 100 | 884 | 200 | SKIN |

Predicted no-effect concentration - PNEC.

| | | |
|--|------|-------|
| Normal value for the terrestrial compartment | 2,68 | mg/kg |
| Normal value in fresh water | 0,1 | mg/l |
| Normal value in marine water | 0,01 | mg/l |
| Normal value for fresh water sediment | 13,7 | mg/l |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers. | | | | Effects on workers | | | |
|-------------------|-----------------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
| | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Inhalation. | | | | | 293 mg/m3 | VND | VND | 77 mg/m3 |
| Skin. | | | | | | | VND | 180 mg/kg/d |



SECTION 8. Exposure controls/personal protection. ... / >>

Methyl methacrylate

Threshold Limit Value.

| Type | Country | TWA/8h | | STEL/15min | |
|-----------|---------|--------|-----|------------|-----|
| | | mg/m3 | ppm | mg/m3 | ppm |
| WEL | UK | 208 | 50 | 416 | 100 |
| OEL | IRL | | 50 | | 100 |
| OEL | EU | | 50 | | 100 |
| TLV-ACGIH | | 205 | 50 | 410 | 100 |

Ethanol

Threshold Limit Value.

| Type | Country | TWA/8h | | STEL/15min | |
|------|---------|--------|-----|------------|----------|
| | | mg/m3 | ppm | mg/m3 | ppm |
| OEL | EU | 960 | 500 | 1920 | 1000 |
| TLV | | 960 | 500 | 1920 (C) | 1000 (C) |

Predicted no-effect concentration - PNEC.

| | | |
|--|------|-------|
| Normal value for the terrestrial compartment | 0,63 | mg/kg |
| Normal value in fresh water | 0,96 | mg/l |
| Normal value in marine water | 0,79 | mg/l |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers. | | | | Effects on workers | | | |
|-------------------|-----------------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
| | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral. | | | | | | | VND | 343 |
| Inhalation. | | | | | VND | 1900 | VND | 950 |
| Skin. | | | | | | mg/m3 | VND | 343 |
| | | | | | | | | mg/kg/24 h |

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.

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.

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



SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

| | |
|--|-------------------|
| Appearance | liquid |
| Colour | opalescent |
| Odour | characteristic |
| Odour threshold. | Not available. |
| pH. | Not available. |
| Melting point / freezing point. | Not available. |
| Initial boiling point. | > 79 °C. |
| Boiling range. | Not available. |
| Flash point. | < 21 °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. | Not available. |
| Upper explosive limit. | Not available. |
| Vapour pressure. | Not available. |
| Vapour density | > 1.0000 |
| Relative density. | 0,96 Kg/l |
| Solubility | partially soluble |
| Partition coefficient: n-octanol/water | Not available. |
| Auto-ignition temperature. | Not available. |
| Decomposition temperature. | Not available. |
| Viscosity | Not available. |
| Explosive properties | Not available. |
| Oxidising properties | Not available. |

9.2. Other information.

| | | | | |
|------------------------------|---------|---|--------|----------|
| VOC (Directive 1999/13/EC) : | 73,89 % | - | 709,34 | g/litre. |
| VOC (volatile carbon) : | 25,03 % | - | 240,27 | g/litre. |

SECTION 10. Stability and reactivity.

10.1. Reactivity.

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

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

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

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

10.2. Chemical stability.

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

10.3. Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air.

ETHYLBENZENE: reacts violently with strong oxidising agents and attacks various types of plastics. Can form explosive mixtures with the air.

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

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 explosion on contact with: strong oxidising agents. Can react dangerously with alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with the air.

METHYL METHACRYLATE: may polymerise on contact with: ammonia, organic peroxides, persulphates. risk of explosion on contact with: dibenzoyl peroxide, di-terbutyl peroxide, propionaldehyde. Can react dangerously with strong oxidising agents. Forms explosive mixtures with the air.



SECTION 10. Stability and reactivity. ... / >>

10.4. Conditions to avoid.

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

ETHANOL: avoid exposure to sources of heat and naked flames.

1-METHOXY-2-PROPANOL ACETATE: store in an inert atmosphere, sheltered from moisture because it hydrolyses easily.

ETHYL ACETATE: avoid exposure to light, sources of heat and naked flames.

N-BUTYL ACETATE: avoid exposure to moisture, sources of heat and naked flames.

METHYL METHACRYLATE: avoid heat, UV rays, oxidising agents, reducing agents, acids and bases.

10.5. Incompatible materials.

1-METHOXY-2-PROPANOL ACETATE: oxidising agents, strong acids and alkaline metals.

ETHYL ACETATE: acids and bases, strong oxidising agents; aluminium and some plastics, nitrates and chlorosulphuric acid.

N-BUTYL ACETATE: water, nitrates, strong oxidising agents, acids and alkalis and potassium tert-butoxide.

10.6. Hazardous decomposition products.

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

ETHYLBENZENE: methane, styrene, hydrogen, ethane.

METHYL METHACRYLATE: when heated to decomposition it releases harsh and irritating fumes and vapours.

SECTION 11. Toxicological information.

11.1. Information on toxicological effects.

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.

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.

ETHYLBENZENE: like the benzene homologues, may exert an effect on the CNS with depression, narcosis, often preceded by dizziness and accompanied by headache. It is irritating to the skin, conjunctivae and respiratory apparatus.

XYLENE (MIXTURE OF ISOMERS): has a toxic effect on the CNS (encephalopathies). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

1-METHOXY-2-PROPANOL ACETATE: the main way of entry is the skin, whereas the respiratory way is less important owing to the low vapour tension of the product. Concentrations above 100 ppm cause eye irritation, nose and oropharynx. At 1000 ppm disturbance in the equilibrium and severe eye irritation is observed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and ocular irritation on direct contact. No chronic effects have been reported in man.

N-BUTYL ACETATE: in humans the substance's vapours cause irritation to the eyes and nose. In the event of repeated exposure, there is skin irritation, dermatosis (with dryness and flaking of the skin) and keratitis.

Ethylbenzene

| | |
|--------------------|--------------------|
| LD50 (Oral). | 3500 mg/kg Rat |
| LD50 (Dermal). | 17800 mg/kg Rabbit |
| LC50 (Inhalation). | 17,6 mg/l/4h Rat |

Ethanol

| | |
|--------------------|-----------------|
| LD50 (Oral). | 10470 mg/kg Rat |
| LC50 (Inhalation). | 124,7 mg/l/4h |

Xylene (mixture of isomers)

| | |
|--------------------|--------------------|
| LD50 (Oral). | 3523 mg/kg Rat |
| LD50 (Dermal). | 12126 mg/kg Rabbit |
| LC50 (Inhalation). | 27124 mg/m3 Rat |

1-methoxy-2-propanol acetate

| | |
|--------------------|---------------------|
| LD50 (Oral). | 8500 mg/kg Rat |
| LD50 (Dermal). | > 5000 mg/kg Rabbit |
| LC50 (Inhalation). | 35,7 mg/l Rat |

**SECTION 11. Toxicological information.** ... / >>

| | |
|--------------------|----------------------|
| Ethyl acetate | |
| LD50 (Oral). | 4100 mg/kg rat |
| LD50 (Dermal). | > 20000 mg/kg rabbit |
| LC50 (Inhalation). | 22,5 mg/l/6h rat |
| n-butyl acetate | |
| LD50 (Oral). | > 10000 mg/kg Rat |
| LD50 (Dermal). | > 14000 mg/kg Rabbit |
| LC50 (Inhalation). | > 21,1 mg/l/4h Rat |

SECTION 12. Ecological information.

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil, sewers and waterways. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

12.1. Toxicity.

| | |
|------------------------------------|----------------------|
| Ethylbenzene | |
| LC50 - for Fish. | 48,5 mg/l/96h Fish |
| Ethanol | |
| LC50 - for Fish. | 15,3 g/l |
| EC10 for Algae / Aquatic Plants. | 675 mg/l/96h |
| 1-methoxy-2-propanol acetate | |
| LC50 - for Fish. | > 100 mg/l/96h Fish |
| Ethyl acetate | |
| LC50 - for Fish. | 230 mg/l/96h Fish |
| EC50 - for Crustacea. | 260 mg/l/48h Daphnia |
| EC50 - for Algae / Aquatic Plants. | > 100 mg/l/72h Algae |
| n-butyl acetate | |
| LC50 - for Fish. | 18 mg/l/96h Fish |
| EC50 - for Crustacea. | 44 mg/l/48h Daphnia |

12.2. Persistence and degradability.

Information not available.

12.3. Bioaccumulative potential.

Information not available.

12.4. Mobility in soil.

Information not available.

12.5. 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%.

12.6. Other adverse effects.

Information not available.

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.

Avoid littering. Do not contaminate soil, sewers and waterways.

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.

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: 1263
Packing Group: II
Label: 3
Nr. Kemler: 33
Limited Quantity: 5 L
Tunnel restriction code: (D/E)
Proper Shipping Name: PAINT or PAINT RELATED MATERIAL
Special Provision: 640C



Carriage by sea (shipping):

IMO Class: 3 UN: 1263
Packing Group: II
Label: 3
EMS: F-E , S-E
Marine Pollutant: NO
Proper Shipping Name: PAINT or PAINT RELATED MATERIAL



Transport by air:

IATA: 3 UN: 1263
Packing Group: II
Label: 3
Cargo:
Packaging instructions: 364 Maximum quantity: 60 L
Pass.:
Packaging instructions: 353 Maximum quantity: 5 L
Special Instructions: A3, A72
Proper Shipping Name: PAINT or PAINT RELATED MATERIAL
For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.



SECTION 15. Regulatory information.

15.1. 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.

Product.
Point. 3 - 40

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisation (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

**SECTION 15. Regulatory information. ... / >>**

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.

15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information.

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

| | |
|----------------------|--|
| Flam. Liq. 2 | Flammable liquid, category 2 |
| Flam. Liq. 3 | Flammable liquid, category 3 |
| Acute Tox. 4 | Acute toxicity, category 4 |
| Eye Irrit. 2 | Eye irritation, category 2 |
| Skin Irrit. 2 | Skin irritation, category 2 |
| STOT SE 3 | Specific target organ toxicity - single exposure, category 3 |
| Skin Sens. 1 | Skin sensitization, category 1 |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H312 | Harmful in contact with skin. |
| H332 | Harmful if inhaled. |
| H319 | Causes serious eye irritation. |
| H315 | Causes skin irritation. |
| H335 | May cause respiratory irritation. |
| H317 | May cause an allergic skin reaction. |
| H336 | May cause drowsiness or dizziness. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

| | |
|---------------|---|
| R10 | FLAMMABLE. |
| R11 | HIGHLY FLAMMABLE. |
| R20 | HARMFUL BY INHALATION. |
| R20/21 | HARMFUL BY INHALATION AND IN CONTACT WITH SKIN. |
| R36 | IRRITATING TO EYES. |
| R37/38 | IRRITATING TO RESPIRATORY SYSTEM AND SKIN. |
| R38 | IRRITATING TO SKIN. |
| R43 | MAY CAUSE SENSITISATION BY SKIN CONTACT. |
| R66 | REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING. |
| R67 | VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS. |

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%
- 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

**SECTION 16. Other information. ... / >>**

- 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. Directive 1999/45/EC and following amendments
2. Directive 67/548/EEC and following amendments and adjustments
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
4. Regulation (EC) 1272/2008 (CLP) of the European Parliament
5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
6. Regulation (EC) 453/2010 of the European Parliament
7. Regulation (EC) 286/2011 (II Atp. CLP) of the European Parliament
8. Regulation (EC) 618/2012 (III Atp. CLP) of the European Parliament
9. The Merck Index. - 10th Edition
10. Handling Chemical Safety
11. Niosh - Registry of Toxic Effects of Chemical Substances
12. INRS - Fiche Toxicologique (toxicological sheet)
13. Patty - Industrial Hygiene and Toxicology
14. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
15. 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.

Changes to previous review:

The following sections were modified:

01 / 03 / 05 / 06 / 08 / 09 / 10 / 11 / 12 / 14 / 15.