

# Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878

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

### 1.1. Product identifier

Code: C0031  
Product name: TINTE RAL IN BARATTOLO  
Chemical name and synonym: SMALTO ALCHIDICO  
UFI: YP50-C09E-000F-A0MF

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

Intended use: TINTE RAL ORIGINALI EUROPEE IN BARATTOLO.

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

Name: Talken Color Srl  
Full address: via Don Milani 15  
District and Country: 20025 Legnano (Mi)  
Italia  
Tel. 0331/579100  
Fax 0331/579372

e-mail address of the competent person responsible for the Safety Data Sheet: tecnico@talkencolor.it

### 1.4. Emergency telephone number

For urgent inquiries refer to

CAV “  
Ospedale Pediatrico Bambino Gesù”  
–  
Roma  
Tel. (+39) 06.6859.3726  
CAV “  
Azienda Ospedaliera Università di Foggia”  
–  
Foggia  
Tel. 800.183.459  
CAV “  
Azienda Ospedaliera A. Cardarelli”  
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CAV Policlinico “  
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CAV Azienda Ospedaliera “  
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U.O. Tossicologia Medica –  
Firenze

**C0031 - TINTE RAL IN BARATTOLO**

Tel. (+39) 055.794.7819  
**CAV Centro Nazionale di Informazione Tossicologica –**  
**Pavia**  
 Tel. (+39) 0382.24.444  
**CAV Ospedale Niguarda –**  
**Milano**  
 Tel. (+39) 02.66.1010.29  
**CAV Azienda Ospedaliera Papa Giovanni XXIII –**  
**Bergamo**  
 Tel. 800.88.33.00  
**CAV Centro Antiveleni Veneto –**  
**Verona**  
 Tel. 800.011.858

**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 (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. 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.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

**2.2. 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>H318</b>	Causes serious eye damage.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H336</b>	May cause drowsiness or dizziness.

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**H412** Harmful to aquatic life with long lasting effects.

Precautionary statements:

**P501** Dispose of contents in different containers for steel

**P102** Keep out of reach of children.

**P101** If medical advice is needed, have product container or label at hand.

**P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P280** Wear protective gloves/ protective clothing / eye protection / face protection.

**Contains:** BUTAN-1-OL  
DIACETONE ALCOHOL  
N-BUTYL ACETATE  
XYLENE

### 2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

## SECTION 3. Composition/information on ingredients

### 3.2. Mixtures

Contains:

Identification	Conc. %	Classification (EC) 1272/2008 (CLP)
<b>DIACETONE ALCOHOL</b>		
INDEX 603-016-00-1	16,831	Flam. Liq. 3 H226, Eye Irrit. 2 H319, STOT SE 3 H335
EC 204-626-7		
CAS 123-42-2		
REACH Reg. 01-2119473975-21		
<b>N-BUTYL ACETATE</b>		
INDEX 607-025-00-1	9,948	Flam. Liq. 3 H226, STOT SE 3 H336, EUH066
EC 204-658-1		
CAS 123-86-4		
REACH Reg. 01-2119485493-29		
<b>BUTAN-1-OL</b>		
INDEX 603-004-00-6	8,501	Flam. Liq. 3 H226, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, STOT SE 3 H336

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EC 200-751-6		LD50 Oral: 790 mg/kg
CAS 71-36-3		
REACH Reg. 01-2119484630-38		
<b>XYLENE</b>		
INDEX 601-022-00-9	5,868	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H335, Classification note according to Annex VI to the CLP Regulation: C
EC 215-535-7		ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l
CAS 1330-20-7		
REACH Reg. 01-2119488216-32-XXX		
<b>PROPAN-2-OL</b>		
INDEX 603-117-00-0	4,208	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336
EC 200-661-7		
CAS 67-63-0		
REACH Reg. 01-2119457558-25		
<b>Miscela di reazione di o-xilene m-xilene, p-xilene etilbenzene</b>		
INDEX -	1,689	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315
EC 215-535-7		ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l, ATE Inhalation mists/powders: 1,5 mg/l
CAS -		
REACH Reg. 01-2119488216-32-xxxx		
<b>2-BUTOXYETHANOL</b>		
INDEX 603-014-00-0	1,315	Acute Tox. 3 H331, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC 203-905-0		LD50 Oral: 1200 mg/kg, LC50 Inhalation vapours: 3 mg/l/4h
CAS 111-76-2		
REACH Reg. 01-2119475108-36-XXXX		
<b>ETHYLBENZENE</b>		
INDEX 601-023-00-4	1,042	Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Aquatic Chronic 3 H412
EC 202-849-4		LC50 Inhalation vapours: 17,2 mg/l/4h
CAS 100-41-4		
REACH Reg. 01-2119489370-35-XXX		
<b>2-METHOXY-1-METHYLETHYL ACETATE</b>		
INDEX 607-195-00-7	0,761	Flam. Liq. 3 H226
EC 203-603-9		
CAS 108-65-6		
<b>NONYLPHENOL, BRANCHED AND LINEAR, ETHOXYLATED (with average molecular weight <math>\leq</math> 1 540 g/mol)</b>		
INDEX 604-100-00-0	0,056	Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=10
EC 500-024-6		
CAS 9016-45-9		
<b>TITANIUM DIOXIDE [in powder form containing 1 % or more of particles with aerodynamic diameter <math>\leq</math> 10 <math>\mu</math>m]</b>		
INDEX 022-006-00-2	0,025	Carc. 2 H351, EUH211, Classification note according to Annex VI to the CLP Regulation: 10, V, W

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EC 236-675-5

EUH211: ≥ 1%

CAS 13463-67-7

**TOLUENE**

INDEX 601-021-00-3

0,002

Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 3 H412

EC 203-625-9

CAS 108-88-3

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

**SECTION 4. First aid measures****4.1. Description of first aid measures**

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

**EYES:** Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

**SKIN:** Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. Avoid further contact with contaminated clothing.

**INGESTION:** Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

**INHALATION:** Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

Specific information on symptoms and effects caused by the product are unknown.

**DELAYED EFFECTS:** Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

Immediately call a POISON CENTER / doctor / . . .

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

**SECTION 5. Firefighting measures****5.1. Extinguishing media****SUITABLE EXTINGUISHING EQUIPMENT**

Extinguishing substances are: carbon dioxide and 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.

**C0031 - TINTE RAL IN BARATTOLO****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**

If large quantities of the product are involved in a fire, they can make it considerably worse. Do not breathe combustion products.

**5.3. Advice for firefighters****GENERAL INFORMATION**

In the case of fire, use jets of water to cool the containers to prevent the risk of explosions (product decomposition and excess pressure) and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Remove all containers containing the product from the fire, if it is safe to do so.

**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.

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

**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. 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**

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. 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. 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.

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**7.2. Conditions for safe storage, including any incompatibilities**

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition.

**2-METHOXY-1-METHYLETHYL ACETATE**

Store in an inert atmosphere, sheletered from moisture because it hydrolises easily.

**7.3. Specific end use(s)**

Information not available

**SECTION 8. Exposure controls/personal protection****8.1. Control parameters**

Regulatory references:

ESP	España	Límites de exposición profesional para agentes químicos en España 2023
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2023

**DIACETONE ALCOHOL****Threshold Limit Value**

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
VLA	ESP	241	50	
WEL	GBR	241	50	362 75
TLV-ACGIH		238	50	

**N-BUTYL ACETATE****Threshold Limit Value**

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
VLA	ESP	241	50	723 150
VLEP	ITA	241	50	723 150
WEL	GBR	724	150	966 200
OEL	EU	241	50	723 150
TLV-ACGIH			50	150

**BUTAN-1-OL****Threshold Limit Value**

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	

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VLA	ESP	61	20	154	50	
WEL	GBR			154	50	SKIN
TLV-ACGIH		61	20			

### XYLENE

#### Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm	
VLA	ESP	221	50	442	100	SKIN
VLEP	ITA	221	50	442	100	SKIN
WEL	GBR	220	50	441	100	SKIN
OEL	EU	221	50	442	100	SKIN
TLV-ACGIH			20			

### PROPAN-2-OL

#### Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm	
VLA	ESP	500	200	1000	400	
WEL	GBR	999	400	1250	500	
TLV-ACGIH		492	200	983	400	

### 2-BUTOXYETHANOL

#### Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm	
VLA	ESP	98	20	245	50	SKIN
VLEP	ITA	98	20	246	50	SKIN
WEL	GBR	123	25	246	50	SKIN
OEL	EU	98	20	246	50	SKIN
TLV-ACGIH		97	20			

### ETHYLBENZENE

#### Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm	
VLA	ESP	441	100	884	200	SKIN
VLEP	ITA	442	100	884	200	SKIN
WEL	GBR	441	100	552	125	SKIN
OEL	EU	442	100	884	200	SKIN
TLV-ACGIH		87	20			

### 2-METHOXY-1-METHYLETHYL ACETATE

#### Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	Remarks / Observations		

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		mg/m3	ppm	mg/m3	ppm	
VLA	ESP	275	50	550	100	SKIN
VLEP	ITA	275	50	550	100	SKIN
WEL	GBR	274	50	548	100	SKIN
OEL	EU	275	50	550	100	SKIN

**TOLUENE****Threshold Limit Value**

Type	Country	TWA/8h	STEL/15min	Remarks / Observations		
		mg/m3	ppm			
VLA	ESP	192	50	384	100	SKIN
VLEP	ITA	192	50			SKIN
WEL	GBR	191	50	384	100	SKIN
OEL	EU	192	50	384	100	SKIN
TLV-ACGIH			20			

## Legend:

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

**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.

Provide an emergency shower with face and eye wash station.

**HAND PROTECTION**

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.

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 II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 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 ISO 16321).

**RESPIRATORY PROTECTION**

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. Use a mask with a type AX filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).

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

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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.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

**SECTION 9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Properties	Value	Information
Appearance	liquid	
Colour	as showed in color folder	
Odour	characteristic of solvent	
Melting point / freezing point	not available	
Initial boiling point	> 35 °C	
Flammability	not applicable	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	< 23 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	not available	
Kinematic viscosity	not applicable	
Solubility	solubile in acetone e/o diluente nitro	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	1,016	
Relative vapour density	not available	
Particle characteristics	not applicable	

**9.2. Other information**

## 9.2.1. Information with regard to physical hazard classes

Information not available

## 9.2.2. Other safety characteristics

Total solids (250°C / 482°F)	16,95 %	
VOC (Directive 2010/75/EU)	63,46 % - 644,71	g/litre
Explosive properties	not applicable	
Oxidising properties	not applicable	

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

The product can decompose and/or react violently.

#### DIACETONE ALCOHOL

Decomposes at temperatures above 90°C/194°F.

#### N-BUTYL ACETATE

Decomposes on contact with: water.

#### BUTAN-1-OL

Attacks various types of plastic materials.

#### 2-BUTOXYETHANOL

Decomposes under the effect of heat.

#### 2-METHOXY-1-METHYLETHYL ACETATE

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

#### TOLUENE

Avoid exposure to: light.

### 10.2. Chemical stability

See previous paragraph.

### 10.3. Possibility of hazardous reactions

See paragraph 10.1.

#### DIACETONE ALCOHOL

Risk of explosion on contact with: air, sources of heat. May react dangerously with: alkaline metals, amines, oxidising agents, acids.

#### N-BUTYL ACETATE

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

#### BUTAN-1-OL

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Reacts violently developing heat on contact with: aluminium, strong oxidising agents, strong reducing agents, hydrochloric acid. Forms explosive mixtures with: air.

## XYLENE

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

## 2-BUTOXYETHANOL

May react dangerously with: aluminium, oxidising agents. Forms peroxides with: air.

## ETHYLBENZENE

Reacts violently with: strong oxidants. Attacks various types of plastic materials. May form explosive mixtures with: air.

## 2-METHOXY-1-METHYLETHYL ACETATE

May react violently with: oxidising substances, strong acids, alkaline metals.

## TOLUENE

Risk of explosion on contact with: fuming sulphuric acid, nitric acid, silver perchlorate, nitrogen dioxide, non-metal halogenates, acetic acid, organic nitrocompounds. May form explosive mixtures with: air. May react dangerously with: strong oxidising agents, strong acids, sulphur.

**10.4. Conditions to avoid**

As the product decomposes even at ambient temperature, it must be stored and used at a controlled temperature. Avoid violent blows.

## DIACETONE ALCOHOL

Avoid exposure to: light, sources of heat, naked flames.

## N-BUTYL ACETATE

Avoid exposure to: moisture, sources of heat, naked flames.

## BUTAN-1-OL

Avoid exposure to: sources of heat, naked flames.

## 2-BUTOXYETHANOL

Avoid exposure to: sources of heat, naked flames.

**10.5. Incompatible materials**

## N-BUTYL ACETATE

Incompatible with: water, nitrates, strong oxidants, acids, alkalis, zinc.

## 2-METHOXY-1-METHYLETHYL ACETATE

Incompatible with: oxidising substances, strong acids, alkaline metals.

**10.6. Hazardous decomposition products**

2-BUTOXYETHANOL

May develop: hydrogen.

ETHYLBENZENE

May develop: methane,styrene,hydrogen,ethane.

**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 hazard classes as defined in Regulation (EC) No 1272/2008**Metabolism, toxicokinetics, mechanism of action and other information

2-METHOXY-1-METHYLETHYL ACETATE

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Information on likely routes of exposure

DIACETONE ALCOHOL

WORKERS: inhalation; contact with the skin.

N-BUTYL ACETATE

WORKERS: inhalation; contact with the skin.

XYLENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

ETHYLBENZENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

2-METHOXY-1-METHYLETHYL ACETATE

WORKERS: inhalation; contact with the skin.

TOLUENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

DIACETONE ALCOHOL

Acute toxicity causes irritation of the eyes, nose and throat in humans at 100 ppm (476 mg/kg) and pulmonary disorders at 400 ppm. No chronic effects on humans have been reported. The substance may have a depressive effect on the respiratory centres and cause death from respiratory failure.

N-BUTYL ACETATE

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In humans, the substance's vapours cause irritation of the eyes and nose. In the event of repeated exposure, skin irritation, dermatitis (dryness and cracking of the skin) and keratitis appear.

**XYLENE**

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

**ETHYLBENZENE**

As the counterparts of benzene, may have an acute effect on the central nervous system, with depression, narcosis, often preceded by dizziness and associated with headache (Ispeel). Is irritating for skin, conjunctiva and respiratory tract.

**2-METHOXY-1-METHYLETHYL ACETATE**

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

**TOLUENE**

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

Interactive effects**N-BUTYL ACETATE**

A case of acute intoxication been reported involving a 33 year old worker while cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The person had irritation of the conjunctiva and upper respiratory tract, drowsiness and motor coordination disorders, which disappeared within 5 hours. The symptoms are attributed to poisoning by mixed xylenes and butyl acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011).

**XYLENE**

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

**TOLUENE**

Certain drugs and other industrial products can interfere with the metabolism of the toluene.

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture:	> 5 mg/l
ATE (Inhalation - vapours) of the mixture:	> 20 mg/l
ATE (Oral) of the mixture:	>2000 mg/kg
ATE (Dermal) of the mixture:	>2000 mg/kg

**DIACETONE ALCOHOL**

LD50 (Oral):	4000 mg/kg Rat
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**N-BUTYL ACETATE**

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

**BUTAN-1-OL**

LD50 (Dermal):	3400 mg/kg Rabbit
LD50 (Oral):	790 mg/kg Rat
LC50 (Inhalation vapours):	8000 ppm/4h Rat

**XYLENE**

LD50 (Dermal):	4350 mg/kg Rabbit
ATE (Dermal):	1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP

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(figure used for calculation of the acute toxicity estimate of the mixture)

LD50 (Oral): 3523 mg/kg Rat  
 LC50 (Inhalation vapours): 26 mg/l/4h Rat  
 ATE (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP  
 (figure used for calculation of the acute toxicity estimate of the mixture)

**PROPAN-2-OL**

LD50 (Dermal): 12800 mg/kg Rat  
 LD50 (Oral): 4710 mg/kg Rat  
 LC50 (Inhalation vapours): 72,6 mg/l/4h Rat

**Miscela di reazione di o-xilene m-xilene, p-xilene etilbenzene**

ATE (Dermal): 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP  
 (figure used for calculation of the acute toxicity estimate of the mixture)

ATE (Inhalation mists/powders): 1,5 mg/l estimate from table 3.1.2 of Annex I of the CLP  
 (figure used for calculation of the acute toxicity estimate of the mixture)

ATE (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP  
 (figure used for calculation of the acute toxicity estimate of the mixture)

**2-BUTOXYETHANOL**

LD50 (Oral): 1200 mg/kg Guinea pig  
 LC50 (Inhalation vapours): 3 mg/l/4h Rat

**ETHYLBENZENE**

LD50 (Dermal): 15354 mg/kg Rabbit  
 LD50 (Oral): 3500 mg/kg Rat  
 LC50 (Inhalation vapours): 17,2 mg/l/4h Rat

**2-METHOXY-1-METHYLETHYL ACETATE**

LD50 (Dermal): > 5000 mg/kg Rat  
 LD50 (Oral): 8530 mg/kg Rat

**NONYLPHENOL, BRANCHED AND LINEAR, ETHOXYLATED (with average molecular weight  $\leq$  1 540 g/mol)**

LD50 (Dermal): 1780 mg/kg Rabbit  
 LD50 (Oral): 1310 mg/kg Rat

**TITANIUM DIOXIDE [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq$  10  $\mu$ m]**

LD50 (Oral): > 10000 mg/kg Rat

**TOLUENE**

LD50 (Dermal): 12124 mg/kg Rabbit  
 LD50 (Oral): 5580 mg/kg Rat  
 LC50 (Inhalation vapours): 28,1 mg/l/4h Rat

**SKIN CORROSION / IRRITATION**

Causes skin irritation

**SERIOUS EYE DAMAGE / IRRITATION**

Causes serious eye damage

**RESPIRATORY OR SKIN SENSITISATION**

Does not meet the classification criteria for this hazard class

**C0031 - TINTE RAL IN BARATTOLO**GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

XYLENE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC).  
The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

ETHYLBENZENE

Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2000).  
Classified in Group D (not classifiable as a human carcinogen) by the US Environmental Protection Agency (EPA) - (US EPA file on-line 2014).

TITANIUM DIOXIDE [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ]

The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1% or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ .

TOLUENE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999).  
The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause respiratory irritation

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

**11.2. Information on other hazards**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

**SECTION 12. Ecological information**

This product is dangerous for the environment and the aquatic organisms. In the long term, it has negative effects on the aquatic environment.

**12.1. Toxicity**

Information not available

## C0031 - TINTE RAL IN BARATTOLO

**12.2. Persistence and degradability**

NONYLPHENOL, BRANCHED AND  
LINEAR, ETHOXYLATED (with average  
molecular weight  $\leq 1\ 540$  g/mol)

Solubility in water > 10000 mg/l

Rapidly degradable  
XYLENE

Solubility in water 100 - 1000 mg/l

Rapidly degradable

TITANIUM DIOXIDE [in powder form contain  
ing 1 % or more of particles with aerodynamic dia  
meter  $\leq 10\ \mu\text{m}$ ]

Solubility in water < 0,001 mg/l

Degradability: information not available

2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable  
TOLUENE

Solubility in water 100 - 1000 mg/l

Rapidly degradable  
ETHYLBENZENE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable  
BUTAN-1-OL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable  
2-BUTOXYETHANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable  
DIACETONE ALCOHOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable  
PROPAN-2-OL

Rapidly degradable  
N-BUTYL ACETATE

Solubility in water 1000 - 10000 mg/l

**12.3. Bioaccumulative potential**

NONYLPHENOL, BRANCHED AND  
LINEAR, ETHOXYLATED (with average  
molecular weight  $\leq 1\ 540$  g/mol)

Partition coefficient: n-octanol/water 3,7

XYLENE

Partition coefficient: n-octanol/water 3,12

BCF 25,9

2-METHOXY-1-METHYLETHYL ACETATE

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Partition coefficient: n-octanol/water	1,2
TOLUENE	
Partition coefficient: n-octanol/water	2,73
BCF	90
ETHYLBENZENE	
Partition coefficient: n-octanol/water	3,6
BUTAN-1-OL	
Partition coefficient: n-octanol/water	1
BCF	3,16
2-BUTOXYETHANOL	
Partition coefficient: n-octanol/water	0,81
DIACETONE ALCOHOL	
Partition coefficient: n-octanol/water	-0,09
PROPAN-2-OL	
Partition coefficient: n-octanol/water	0,05
N-BUTYL ACETATE	
Partition coefficient: n-octanol/water	2,3
BCF	15,3

**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  $\geq$  than 0,1%.

**12.6. Endocrine disrupting properties**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

**12.7. Other adverse effects**

Information not available

**SECTION 13. Disposal considerations**

**C0031 - TINTE RAL IN BARATTOLO****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.

The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.

**CONTAMINATED PACKAGING**

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

**SECTION 14. Transport information****14.1. UN number or ID number**

ADR / RID, IMDG, IATA: UN 1263

**14.2. UN proper shipping name**

ADR / RID: PAINT or PAINT RELATED MATERIAL

IMDG: PAINT or PAINT RELATED MATERIAL

IATA: PAINT or PAINT RELATED MATERIAL

**14.3. Transport hazard class(es)**

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3

**14.4. Packing group**

ADR / RID, IMDG, IATA: II

**14.5. Environmental hazards**

ADR / RID: NO

IMDG: not marine pollutant

IATA: NO

**14.6. Special precautions for user**

ADR / RID: HIN - Kemler: 33

Limited  
Quantities: 5  
lt

Tunnel  
restriction  
code: (D/E)

IMDG: Special provision: 163, 367, 640C,  
650

EMS: F-E, S-E

Limited  
Quantities: 5

## C0031 - TINTE RAL IN BARATTOLO

IATA:	Cargo:	lt Maximum quantity: 60 L	Packaging instructions: 364
	Passengers:	Maximum quantity: 5 L	Packaging instructions: 353
	Special provision:	A3, A72, A192	

**14.7. Maritime transport in bulk according to IMO instruments**

Information not relevant

**SECTION 15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso Category - Directive 2012/18/EU: P5c

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

Point 3 - 40

Contained substance

Point 75

Point 46a NONYLPHENOL, BRANCHED AND LINEAR, ETHOXYLATED (with average molecular weight  $\leq$  1 540 g/mol)

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

**C0031 - TINTE RAL IN BARATTOLO**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.

**15.2. Chemical safety assessment**

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

**SECTION 16. Other information**

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

<b>Flam. Liq. 2</b>	Flammable liquid, category 2
<b>Flam. Liq. 3</b>	Flammable liquid, category 3
<b>Carc. 2</b>	Carcinogenicity, category 2
<b>Repr. 2</b>	Reproductive toxicity, category 2
<b>Acute Tox. 3</b>	Acute toxicity, category 3
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Asp. Tox. 1</b>	Aspiration hazard, category 1
<b>STOT RE 2</b>	Specific target organ toxicity - repeated exposure, category 2
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Aquatic Acute 1</b>	Hazardous to the aquatic environment, acute toxicity, category 1
<b>Aquatic Chronic 1</b>	Hazardous to the aquatic environment, chronic toxicity, category 1
<b>Aquatic Chronic 3</b>	Hazardous to the aquatic environment, chronic toxicity, category 3
<b>H225</b>	Highly flammable liquid and vapour.
<b>H226</b>	Flammable liquid and vapour.
<b>H351</b>	Suspected of causing cancer.
<b>H361d</b>	Suspected of damaging the unborn child.
<b>H331</b>	Toxic if inhaled.
<b>H302</b>	Harmful if swallowed.
<b>H312</b>	Harmful in contact with skin.
<b>H332</b>	Harmful if inhaled.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.

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<b>H336</b>	May cause drowsiness or dizziness.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H412</b>	Harmful to aquatic life with long lasting effects.
<b>EUH066</b>	Repeated exposure may cause skin dryness or cracking.
<b>EUH211</b>	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

## LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

## GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) 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
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)

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- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- 23. Delegated Regulation (UE) 2023/707
- 24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
- 25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
- 26. Delegated Regulation (UE) 2024/197 (XXI Atp. CLP)

- 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
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

**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.

**CALCULATION METHODS FOR CLASSIFICATION**

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

**Changes to previous review:**

The following sections were modified:

01 / 03 / 09.