

## **IMALACK 2084/O**

Revision nr.2 Dated 17/09/2021 Printed on 17/09/2021
Page n. 1 / 13
Replaced revision:1 (Dated 13/11/2020)

## Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878

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

1.1. Product identifier

Product name IMALACK 2084/C

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

Solvent-based aliphatic polyurethane finish Intended use

1.3. Details of the supplier of the safety data sheet

Name IMA S.R.L.

Full address Via Emilio Segrè, 23 District and Country 27036 Mortara

Italia

Tel. 0039.0384 29.73.11 Fax 0039.0384 29.67.32

e-mail address of the competent person responsible for the Safety Data Sheet

RD.lab@imadelta.com

1.4. Emergency telephone number

For urgent inquiries refer to 0039.0384/297311 (office hours)

CAV Osp. Pediatrico Bambino Gesù Roma Piazza Sant'Onofrio, 4 00165 06

(PV)

68593726

Az. Osp. Univ. Foggia Foggia V.le Luigi Pinto, 1 71122 0881-732326 Az. Osp. A. Cardarelli Napoli Via A. Cardarelli, 9 80131 081-7472870 CAV Policlinico Umberto I Roma V.le del Policlinico, 155 161 06-49978000 CAV Policlinico A. Gemelli Roma Largo Agostino Gemelli, 8 168 06-3054343 Az. Osp. Careggi U.O. Tossicologia Medica Firenze Largo Brambilla, 3 50134

055-7947819

CAV Centro Nazionale di Informazione Tossicologica Pavia Via Salvatore

Maugeri, 10 27100 0382-24444

Az. Osp. Niguarda Ca' Granda Milano Piazza Ospedale Maggiore, 3 20162

02-66101029

Az. Osp. Papa Giovanni XXII Bergamo Piazza OMS, 1 24127 800883300

Belgium - National emergency telephone number: 070 245245

Croatia - Poison Control Centre: +385 1 2348 342

Czech Republic - Toxicologické informacnì stredisko: +420 224 919 293 France - National emergency telephone number: +33 (0)145425959

Germany - poison information centres BERLIN: 030 19240 Portugal - National emergency telephone number: 808 250250 Spain - National emergency telephone number: 34 91 562 04 20

## 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

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.
Reproductive toxicity, category 1B	H360D	May damage the unborn child.
Acute toxicity, category 4	H312	Harmful in contact with skin.
Acute toxicity, category 4	H332	Harmful if inhaled.

Serious eye damage, category 1 H318 Causes serious eye damage. Skin irritation, category 2 H315 Causes skin irritation.



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### SECTION 2. Hazards identification

### 2.2. Label elements

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

Hazard pictograms:









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Signal words: Danger

Hazard statements:

H225 Highly flammable liquid and vapour. H360D May damage the unborn child.

Harmful in contact with skin or if inhaled. H312+H332

H318 Causes serious eye damage. H315 Causes skin irritation.

Restricted to professional users.

Precautionary statements:

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

P201 Obtain special instructions before use.

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.

Immediately call a POISON CENTER / doctor P310 P370+P378 In case of fire: use foam, CO2 to extinguish.

Contains: DIMETHYL FORMAMIDE

**TOLUENE** 

ISOBUTYL ALCOHOL

#### 2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration >= 0.1%.

## SECTION 3. Composition/information on ingredients

## 3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

DIMETHYL FORMAMIDE

CAS 68-12-2  $70 \le x < 74$ Flam. Liq. 3 H226, Repr. 1B H360D, Acute Tox. 4 H312, Acute Tox. 4 H332,

Eye Irrit. 2 H319

200-679-5 EC STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l

INDEX 616-001-00-X

REACH Reg. 01-2119475605-32-xxxx

ISOBUTYL ALCOHOL

Flam. Liq. 3 H226, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, CAS 78-83-1  $8.5 \le x < 10$ 

STOT SF 3 H336

EC 201-148-0 **INDEX** 603-108-00-1

REACH Reg. 01-2119484609-23-0008



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#### SECTION 3. Composition/information on ingredients

**TOLUENE** 

Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin 108-88-3  $8.5 \le x < 10$ CAS

Irrit. 2 H315, STOT SE 3 H336

FC. 203-625-9 601-021-00-3 INDEX REACH Reg. 01-2119471310-51

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

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. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again. INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

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

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.

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.

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



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#### SECTION 6. Accidental release measures

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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

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.

#### 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)

Information not available

## SECTION 8. Exposure controls/personal protection

## 8.1. Control parameters

Regulatory References:

CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
TUR	Türkiye	Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	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 2020



WEL

TLV-ACGIH

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## SECTION 8. Exposure controls/personal protection

GBR

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				ISOBUTY	L ALCOHOL		
Threshold Limit Va	lue						
Туре	Country	TWA/8h		STEL/15r	nin	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	CZE	300	97,5	600	195		
AGW	DEU	310	100	310 (C)	100 (C)		
MAK	DEU	310	100	310	100		
VLA	ESP	154	50				
VLEP	FRA	150	50				
GVI/KGVI	HRV	154	50	231	75	SKIN	
TGG	NLD	150					
NDS/NDSCh	POL	100		200		SKIN	

75

				TO	LUENE	
Threshold Limit Va	alue					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	192	50,112	384	100,224	SKIN
AGW	DEU	190	50	760	200	SKIN
MAK	DEU	190	50	760	200	SKIN
VLA	ESP	192	50	384	100	SKIN
VLEP	FRA	76,8	20	384	100	SKIN
GVI/KGVI	HRV	192	50	384	100	SKIN
VLEP	ITA	192	50			SKIN
TGG	NLD	150		384		
VLE	PRT	192	50	384	100	SKIN
NDS/NDSCh	POL	100		200		SKIN
ESD	TUR	192	50	384	100	SKIN
WEL	GBR	191	50	384	100	SKIN
OEL	EU	192	50	384	100	SKIN
TLV-ACGIH		75,4	20			

				DIMETHYL	FORMAN	MIDE
Threshold Limit Va	lue					
Type	Country	TWA/8h	STEL		min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	15	4,935	30	9,87	SKIN
AGW	DEU	15	5	30	10	SKIN
MAK	DEU	15	5	30	10	SKIN
VLEP	FRA	15	5	30	10	SKIN
GVI/KGVI	HRV	15	5	30	10	SKIN
VLEP	ITA	15	5	30	10	SKIN
TGG	NLD	15		30		SKIN
VLE	PRT	15	5	30	10	SKIN
NDS/NDSCh	POL	15		30		SKIN
ESD	TUR	15	5	30	10	SKIN
WEL	GBR	15	5	30	10	SKIN
OEL	EU	15	5	30	10	SKIN
TLV-ACGIH			5			SKIN

### 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 (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.



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

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#### 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 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

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

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

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

## SECTION 9. Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Value Properties Appearance liquid vellowish Colour Odour characteristic Melting point / freezing point 0 °C Initial boiling point 35 °C Flammability not applicable Lower explosive limit Not available Upper explosive limit Not available Flash point 23 °C °C Auto-ignition temperature 0

Auto-ignition temperature

Decomposition temperature

pH

Not available

Kinematic viscosity

Not available

Dynamic viscosity

9 sec. F.C.6

Solubility soluble in organic solvents

Partition coefficient: n-octanol/water
Vapour pressure
Density and/or relative density
Relative vapour density
Particle characteristics
Not available
Not available
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 0 %
VOC (Directive 2010/75/EC) 89,54 %
VOC (volatile carbon) 49,28 %
Explosive properties not applicable
Oxidising properties not applicable

## SECTION 10. Stability and reactivity

## 10.1. Reactivity

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

Information



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## SECTION 10. Stability and reactivity

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**TOLUENE** 

Avoid exposure to: light.

DIMETHYL FORMAMIDE

Decomposes on contact with: naked flames, overheated surfaces. Possible formation of toxic fumes.

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.

#### 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.

#### DIMETHYL FORMAMIDE

Risk of explosion on contact with: alkaline metals, strong oxidising agents, bromine, chlorine, triethyl aluminium, alkaline nitrides. May react violently with: reducing agents, halogens, nitrates, metal oxides, non-metal oxides, halogenated hydrocarbons. Forms explosive mixtures with: hot air.

10.4. Conditions to avoid

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

#### DIMETHYL FORMAMIDE

Avoid exposure to: sources of heat,naked flames.

10.5. Incompatible materials

#### DIMETHYL FORMAMIDE

Incompatible with: oxidising substances,halogenated hydrocarbons,inorganic nitrates,triethylaluminium,bromine,chlorine,iron.

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.

#### DIMETHYL FORMAMIDE

May develop: nitric oxide, dimethylamine, hydrogen cyanide.

## 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

Information not available

Information on likely routes of exposure

**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

#### 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

**TOLUENE** 

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

## ACUTE TOXICITY



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### SECTION 11. Toxicological information

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ATE (Inhalation - vapours) of the mixture: 14,86 mg/l

ATE (Oral) of the mixture: Not classified (no significant component)

ATE (Dermal) of the mixture: 1486,49 mg/kg

ISOBUTYL ALCOHOL

 LD50 (Oral):
 2460 mg/kg Rat

 LD50 (Dermal):
 2460 mg/kg Rabbit

 LC50 (Inhalation vapours):
 19,2 mg/l/4h Rat

**TOLUENE** 

 LD50 (Oral):
 5580 mg/kg Rat

 LD50 (Dermal):
 12124 mg/kg Rabbit

 LC50 (Inhalation vapours):
 28,1 mg/l/4h Rat

DIMETHYL FORMAMIDE

LD50 (Oral): 2800 mg/kg Rat LC50 (Inhalation vapours): > 5.9 mg/l/4h Rat

STA (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)

### 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

## GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

#### **TOLUENE**

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999).

The ÚS Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

#### REPRODUCTIVE TOXICITY

May damage the unborn child

### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

#### 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.



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## SECTION 12. Ecological information

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

12.1. Toxicity

Information not available

12.2. Persistence and degradability

ISOBUTYL ALCOHOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

**TOLUENE** 

Solubility in water 100 - 1000 mg/l

Rapidly degradable

DIMETHYL FORMAMIDE

Solubility in water 1000 - 10000 mg/l

Entirely degradable

12.3. Bioaccumulative potential

ISOBUTYL ALCOHOL

Partition coefficient: n-octanol/water 1

TOLUENE

Partition coefficient: n-octanol/water 2,73 BCF 90

DIMETHYL FORMAMIDE

Partition coefficient: n-octanol/water -0,85 BCF 0,3

12.4. Mobility in soil

ISOBUTYL ALCOHOL

Partition coefficient: soil/water 0,31

DIMETHYL FORMAMIDE

Partition coefficient: soil/water < 10

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

## 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.



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SECTION 13. Disposal considerations

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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

14.1. UN number or ID number

ADR / RID, IMDG, IATA: 1263

14.2. UN proper shipping name

ADR / RID: PAINT or PAINT RELATED MATERIAL IMDG: PAINT or PAINT RELATED MATERIAL PAINT or PAINT RELATED MATERIAL IATA:

14.3. Transport hazard class(es)

ADR / RID:

Class: 3

Label: 3

IMDG:

Class: 3

Label: 3

IATA:

Class: 3

Lahel: 3



14.4. Packing group

ADR / RID, IMDG, IATA:

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 33

Limited Quantities: 5 L

Special provision: 640D

EMS: F-E, S-E IMDG: IATA:

Limited Quantities: 5 L Maximum quantity: 60 L Cargo: Maximum quantity: 5 L

Pass.:

A3. A72. A192 Special provision:

Packaging instructions: 364

Tunnel restriction code: (D/E)

Packaging instructions: 353

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/EC:

P<sub>5</sub>c

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

Product

Point

Contained substance

Point 75

Point 48 **TOLUENE** 

REACH Reg.: 01-2119471310-51

Point 30-72 DIMETHYL FORMAMIDE



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SECTION 15. Regulatory information

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REACH Reg.: 01-2119475605-32-xxxx

Regulation (EC) No. 2019/1148 - on the marketing and use of explosives precursors Not applicable

Substances in Candidate List (Art. 59 REACH)

DIMETHYL FORMAMIDE

REACH Reg.: 01-2119475605-32-xxxx

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

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:

Flam. Liq. 2
Flammable liquid, category 2
Flam. Liq. 3
Flammable liquid, category 3
Repr. 1B
Repr. 2
Reproductive toxicity, category 1
Reproductive toxicity, category 2
Acute Tox. 4
Asp. Tox. 1
Aspiration hazard, category 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Eye Dam. 1 Serious eye damage, category 1
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

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H360D May damage the unborn child.

H361d Suspected of damaging the unborn child. H312+H332 Harmful in contact with skin or if inhaled.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H315 Causes skin irritation.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- 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



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#### SECTION 16. Other information

- GHS: Globally Harmonized System of classification and labeling of chemicals IATA DGR: International Air Transport Association Dangerous Goods Regulation

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- 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
- 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 as for REACH Regulation
- 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 (EU) 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)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII 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





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### SECTION 16. Other information

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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: 02 / 03 / 04 / 08 / 09 / 11 / 12 / 15 / 16.