

### PRIMER PU 412 TF

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### Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

#### 1.1. Product identifier

Product name PRIMER PU 412 TF

UFI: 7HN1-M0W2-T002-J6SK

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

Intended use Primer for sole; for industrial use

1.3. Details of the supplier of the safety data sheet

Name INDUSTRIE CHIMICHE FORESTALI SPA

Full address Via F.IIi Kennedy, 75

District and Country 20010 Marcallo con Casone (MI)

Italia

Tel. +39 02 972141 Fax +39 02 9760158

e-mail address of the competent person

responsible for the Safety Data Sheet SDS@forestali.it

1.4. Emergency telephone number

For urgent inquiries refer to Environmental, Health & Safety Department - Tel. +39-02.97214204 (Lun-Ven

8.00-12.30/13.30-17.00).

### **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

Eye irritation, category 2

Haghly flammable liquid and vapour.

Causes serious eye irritation.

Specific target organ toxicity - single exposure,

Haghly flammable liquid and vapour.

Causes serious eye irritation.

May cause drowsiness or dizziness.

category 3

### 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:

H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

**EUH066** Repeated exposure may cause skin dryness or cracking.

**EUH208** Contains: Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl

(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate



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May produce an allergic reaction.

Precautionary statements:

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

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

P370+P378 In case of fire: use CO2 to extinguish.

Avoid breathing dust / fume / gas / mist / vapours / spray. P261

P233 Keep container tightly closed.

If you feel unwell, call a POISON CENTER / doctor P312

METHYL ETHYL KETONE Contains:

#### 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

Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate

#### 3.2. Mixtures

Contains:

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

**METHYL ETHYL KETONE** 

 $606-002-00-3 \ 80 \le x < 90$ INDFX Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC 201-159-0 CAS 78-93-3

REACH Reg. 01-2119457290-43

Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate

INDEX  $0.05 \le x < 0.1$ Repr. 2 H361f, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1

H410 M=1

FC 915-687-0

CAS

REACH Reg. 01-2119491304-40

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. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

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

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



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### **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 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. 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 cool and 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.



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Storage class TRGS 510 (Germany):

3

### 7.3. Specific end use(s)

See the exposure scenarios attached to this safety datasheet.

TLV-ACGIH

ACGIH 2021

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

### 8.1. Control parameters

Regulatory References:	Reau	latorv	Refer	ences:
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Regulatory Re	eferences:	
BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
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
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
EST	Eesti	Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötervishoiu ja tööohutuse nõuded ning töökeskkonna keemiliste ohutegurite piirnormid [RT I, 17.10.2019, 1 - jõust. 17.01.2020]
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 2020:25
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία"»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
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
LTU	Lietuva	Jsakymas dėl lietuvos higienos normos hn 23:2011 "cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai" patvirtinimo
LVA	Latvija	Grozījumi Ministru kabineta 2007. gada 15. maija noteikumos Nr. 325 "Darba aizsardzības prasības saskarē ar ķīmiskajām vielām darba vietās" (prot. Nr. 32 18. §; prot. Nr. 1 22. §)
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
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
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
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) 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.
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SECTION 8. Expos	sure contro	ols/person	al protecti	on/>>					
				METHYL F	THYL KETONE				
Threshold Limit V	/alue								
Type	Country	TWA/8h		STEL/15	min	Remarks / Obs	servations		
71	- ···· <b>,</b>	mg/m3	ppm	mg/m3	ppm				
TLV	BGR	590		885					
TLV	CZE	600	200,4	900	300,6				
AGW	DEU	600	200	600	200	SKIN			
MAK	DEU	600	200	600	200	SKIN			
TLV	DNK	145	50			SKIN	E		
VLA	ESP	600	200	900	300				
TLV	EST	600	200	900	300				
VLEP	FRA	600	200	900	300	SKIN			
HTP	FIN	60	20	300	100	SKIN			
TLV	GRC	600	200	900	300				
AK	HUN	600		900		SKIN			
GVI/KGVI	HRV	600	200	900	300				
VLEP	ITA	600	200	900	300				
RD	LTU	600	200	900	300				
RV	LVA	200	67	900	300				
TLV	NOR	220	75						
TGG	NLD	590		500		SKIN			
VLE	PRT	600	200	900	300				
NDS/NDSCh	POL	450		900		SKIN			
TLV	ROU	600	200	900	300				
NGV/KGV	SWE	150	50	900	300				
NPEL	SVK	600	200	900	300				
MV	SVN	600	200	900	300	SKIN			
ESD	TUR	600	200	900	300				
WEL	GBR	600	200	899	300	SKIN			
OEL	EU	600	200	900	300				
TLV-ACGIH		590	200	885	300				
Predicted no-effe		ation - PNE	;						
Normal value in							55,8	mg/l	
Normal value in							55,8	mg/l	
Normal value for							284,74	mg/kg/d	
Normal value fo							284,7	mg/kg/d	
Normal value of		•		,			709	mg/l	
Normal value fo				g)			1000	mg/kg	
Normal value fo							22,5	mg/kg/d	
Health - Derived r									
D t		cts on consu		Olama i	Ol	Effects on worke		01	Olamani.
Route of expos				Chronic	Chronic	Acute local	Acute	Chronic	Chronic
Orral	loca	ı sys	temic	local	systemic		systemic	local	systemic
Oral					31				
Inhalatian					mg/kg bw/d				600
Inhalation					106				600
Clain					mg/m3				mg/m3
Skin					412				1161
					mg/kg bw/d				mg/kg
									bw/d



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

Reaction mass of		5,6-pentamethyl-	-4-piperidyl) se	bacate and met	thyl (1,2,2,6,6-p	entamethyl-4	-piperidinyl		
sebacat	~								
Predicted no-effect cor		- PNEC							
Normal value in fresh	ı water					0,0022	mg/l		
Normal value in mari	ne water					0,00022	mg/l		
Normal value for fres	h water sed	iment				1,05	mg/kg/d		
Normal value for mar	ine water se	ediment				0,11	mg/kg/d		
Normal value for wat	er, intermitte	ent release				0,009	mg/l		
Normal value of STP microorganisms						1	mg/l		
Normal value for the	terrestrial co	ompartment				0,21	mg/kg/d		
lealth - Derived no-eff	ect level - D	ONEL / DMEL							
	Effects on consumers Effe				Effects on workers				
Route of exposure	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic	
	local	systemic	local	systemic		systemic	local	systemic	
Oral				1,25					
				mg/kg bw/d					
Inhalation				0,58				2,35	
				mg/m3				mg/m3	
Skin				1,25				2,5	
				mg/kg bw/d				mg/kg	
								bw/d	

#### 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 ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

### 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.

When choosing risk management measures and operating conditions, consult the exposure scenarios attached.

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.

### SKIN PROTECTION

Wear category I 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).

### 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.

### **ENVIRONMENTAL EXPOSURE CONTROLS**

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

For information on controlling environmental exposure, see the exposure scenarios attached to this safety datasheet.

### **SECTION 9. Physical and chemical properties**

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

PropertiesValueInformationAppearanceliquidColourcolorless to pale yellowOdourcharacteristic of solvent



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SECTION 9. Physical and chemical properties ....

Melting point / freezing point -86 °C Initial boiling point 79 °C Flammability flammable liquid Lower explosive limit 1,8 % (v/v) Upper explosive limit 11,5 % (v/v) -9 Flash point °C Auto-ignition temperature 400 °C Decomposition temperature >200 °C not available

Kinematic viscosity not available

Dynamic viscosity <100 mPa.s

Solubility insoluble in water

Partition coefficient: n-octanol/water not available

Vapour pressure 10,4 kPa

Density and/or relative density 0,85 g/cm3
Relative vapour density > 1 @ 101 kPa
Particle characteristics not applicable

Substance:METHYL ETHYL KETONE Substance:METHYL ETHYL KETONE

Substance:METHYL ETHYL KETONE Substance:METHYL ETHYL KETONE Substance:METHYL ETHYL KETONE Substance:METHYL ETHYL KETONE

Reason for missing data:substance/mixture is non-soluble (in water)

Temperature: 20 °C

Reason for missing data: The product is a

mixture

Substance: METHYL ETHYL KETONE

Temperature: 20 °C Temperature: 20 °C

#### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU) 97,00 % - 824,50 g/litre

Total solids 3,0%

### **SECTION 10. Stability and reactivity**

### 10.1. Reactivity

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

### METHYL ETHYL KETONE

Reacts with: light metals, strong oxidants. Attacks various types of plastic materials. Decomposes under the effect of heat.

### 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.

### METHYL ETHYL KETONE

May form peroxides with: air,light,strong oxidising agents.Risk of explosion on contact with: hydrogen peroxide,nitric acid,sulphuric acid.May react dangerously with: oxidising agents,trichloromethane,alkalis.Forms explosive mixtures with: air.

### 10.4. Conditions to avoid

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

### METHYL ETHYL KETONE

Avoid exposure to: sources of heat.

### 10.5. Incompatible materials

### METHYL ETHYL KETONE

Incompatible with: strong oxidants,inorganic acids,ammonia,copper,chloroform.

### 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.

### **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

#### ΕN



### INDUSTRIE CHIMICHE FORESTALI SPA

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### SECTION 11. Toxicological information .../>>

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

Information not available

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

Information not available

Interactive effects

Information not available

### **ACUTE TOXICITY**

ATE (Inhalation) of the mixture:

ATE (Oral) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

METHYL ETHYL KETONE

LD50 (Dermal): > 5000 mg/kg Rabbit LD50 (Oral): 2193 mg/kg Rat

2,5,7,10-TETRAOXAUNDECANO

LD50 (Dermal): > 2000 mg/kg Rat LD50 (Oral): > 5000 mg/kg Rat

Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate

LD50 (Dermal): > 3000 mg/kg Rat LD50 (Oral): > 2000 mg/kg Rat

### SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

### **RESPIRATORY OR SKIN SENSITISATION**

May produce an allergic reaction.

Contains

Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate

### **GERM CELL MUTAGENICITY**

Does not meet the classification criteria for this hazard class

### **CARCINOGENICITY**

Does not meet the classification criteria for this hazard class

### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

### **STOT - SINGLE EXPOSURE**

May cause drowsiness or dizziness

### **STOT - REPEATED EXPOSURE**

# INDUSTRIE

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#### SECTION 11. Toxicological information .../>>

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**

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

METHYL ETHYL KETONE

LC50 - for Fish 2993 mg/l/96h Pimephales EC50 - for Crustacea 308 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 2029 mg/l/96h Pseudokirchneriella subcapitata

2,5,7,10-TETRAOXAUNDECANO

LC50 - for Fish > 100 mg/l/96h

EC50 - for Crustacea > 100 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 100 mg/l/72h

Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate

LC50 - for Fish 0,9 mg/l/96h
EC50 - for Algae / Aquatic Plants 1,68 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants 1 mg/l

### 12.2. Persistence and degradability

METHYL ETHYL KETONE

Solubility in water > 10000 mg/l

Rapidly degradable

### 12.3. Bioaccumulative potential

METHYL ETHYL KETONE

Partition coefficient: n-octanol/water 0,3

2,5,7,10-TETRAOXAUNDECANO

Partition coefficient: n-octanol/water < 0 Log Kow

Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate

Partition coefficient: n-octanol/water 2,77 Log Kow

### 12.4. Mobility in soil

2,5,7,10-TETRAOXAUNDECANO

Partition coefficient: soil/water 1,517 l/kg

### 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 ≥ 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

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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.

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: 1993

### 14.2. UN proper shipping name

ADR / RID: FLAMMABLE LIQUID, N.O.S. (METHYL ETHYL KETONE) IMDG: FLAMMABLE LIQUID, N.O.S. (METHYL ETHYL KETONE) IATA: FLAMMABLE LIQUID, N.O.S. (METHYL ETHYL KETONE)

### 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:

### 14.5. Environmental hazards

ADR / RID: NO NO IMDG: NO

### 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 33 Limited Quantities: 1 L Tunnel restriction code: (D/E)

Special provision: 274, 601, 640D

IMDG: EMS: F-E, <u>S-E</u> Limited Quantities: 1 L IATA: Cargo: Maximum quantity: 60 L

Packaging instructions: 364 Pass.: Maximum quantity: 5 L Packaging instructions: 353

Special provision:

### 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

ΕN

#### ΕN



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#### SECTION 15. Regulatory information ..../>>

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

Product Point

3 - 40

Contained substance

Point 75

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 ≥ 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

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.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 3: Severe hazard to waters

### 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
Repr. 2 Reproductive toxicity, category 2
Eye Irrit. 2 Eye irritation, category 2
Skin Sens. 1A Skin sensitization, category 1A

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1

Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

H225Highly flammable liquid and vapour.H361fSuspected of damaging fertility.H319Causes serious eye irritation.H317May cause an allergic skin reaction.H336May cause drowsiness or dizziness.

**H400** Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.EUH066 Repeated exposure may cause skin dryness or cracking.

### 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



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#### SECTION 16. Other information .../>

- 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 as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- 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 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 (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)
- 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)
- 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

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### **Exposure Scenarios**

Substance METHYL ETHYL KETONE

Scenario Title BUTANONE

Revision nr. 1

File EN\_00035\_1.pdf

Substance Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidinyl)

sebacate

Scenario Title BIS (1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE

Revision nr. 1

File EN\_00055\_1.pdf