Version number 5 (replaces version 4) Revision: 31.05.2022 Printing date 07.12.2022

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

· 1.1 Product identifier

Trade name: UNIVERSAL Marker Forestry Marking Paint - Long Lasting

Article number: 630701001+, 630702021+, 630703321+, 630703021+, 630704021+, 630705021+, 630706021+, 630709001+, 630708021+ / 10745, 10746, 10753, 10748, 10755, 10756, 10758, 10761, 10760

UFI: DSP5-M0VE-T005-5WUQ

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

No further relevant information available.

· Sector of Use

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

- · Product category PC9a Coatings and paints, thinners, paint removers
- · Process category

PROC7 Industrial spraying
PROC11 Non industrial spraying

- · Application of the substance / the mixture Lacquer
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

A.M.P.E.R.E. SYSTEM

3 rue Antoine Balard

Z.I. du Vert Galant

95310 Saint-Ouen-I'Aumône FRANCE

Têlêphone: + 33 1 34 64 72 72 Fax: +33 1 30 37 55 17 fds@amperesystem.com

- · Further information obtainable from: Customer Service
- · 1.4 Emergency telephone number: UK: National Poisons Information Service 0344 892 0111
- · Ireland: National Poisons Information Centre Beaumont Hospital PO Box 1297 Beaumont Road 9 Dublin: +353 1 809 2566 (Healthcare professionals-24/7) - +353 1 809 2166 (public, 8am - 10pm, 7/7)

# SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.
Aquatic Chronic	c 3 H412	Harmful to aquatic life with long lasting effects

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

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#### · Hazard pictograms





GHS02 GHS07

#### · Signal word Danger

#### · Hazard-determining components of labelling:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane ethyl acetate

 $2\hbox{-}methoxy\hbox{-} 1\hbox{-}methylethyl\ acetate}$ 

n-butyl acetate

#### · Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

#### · Precautionary statements

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

P102 Keep out of reach of children.

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

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe spray.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

*P501* Dispose of contents / container in accordance with regional regulations.

#### · Additional information:

Buildup of explosive mixtures possible without sufficient ventilation.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

#### · 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
EC number: 921-024-6 Reg.nr.: 01-2119475514-35	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane  Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; STOT SE 3, H336	20-<25%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1A, H220 Press. Gas (Comp.), H280	20-<25%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32	butane (containing < 0,1 % butadiene (203-450-8))  Flam. Gas 1A, H220  Press. Gas (Comp.), H280	12.5-<20%

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		(Contd. of page 2
CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5 Reg.nr.: 01-2119475103-46	ethyl acetate  Flam. Liq. 2, H225  Eye Irrit. 2, H319; STOT SE 3, H336  EUH066	10-<12.5%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27	isobutane (containing < 0,1 % butadiene (203-450-8))  Flam. Gas 1A, H220 Press. Gas (Comp.), H280	5-<10%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226 STOT SE 3, H336	2.5-<5%
CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2 Reg.nr.: 01-2119489379-17	titanium dioxide © Carc. 2, H351	2.5-<5%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29	n-butyl acetate  Flam. Liq. 3, H226  STOT SE 3, H336  EUH066	<2.5%

#### · Additional information:

The content of Benzene (EINECS-Nr. 200-753-7) in the ingredients is less than 0,1% (Note P Annex 1A 1272/2008 EU), so the classification as carcinogen need not to apply. For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

# **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.

· 5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

- · 5.3 Advice for firefighters -
- · Protective equipment: Mouth respiratory protective device.

## SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

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#### · 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

#### · 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · Information about fire and explosion protection:

Keep ignition sources away - Do not smoke.

Keep respiratory protective device available.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage

Oral

Dermal

· Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurised containers.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container tightly sealed.
- · Storage class: 2 B
- $\cdot$  7.3 *Specific end use(s) No further relevant information available.*

## SECTION 8: Exposure controls/personal protection

Ingr	Ingredients with limit values that require monitoring at the workplace:		
106-	97-8 butane (containing < 0,1 % butadiene (203-450-8))		
WEL	Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm		
	Carc (if more than 0.1% of buta-1.3-diene)		
141-	78-6 ethyl acetate		
WEL	Short-term value: 1468 mg/m³, 400 ppm Long-term value: 734 mg/m³, 200 ppm		
108-	65-6 2-methoxy-1-methylethyl acetate		
WEL	Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm Sk		
1346	3-67-7 titanium dioxide		
WEL	Long-term value: 10* 4** mg/m³ *total inhalable **respirable		
123-	86-4 n-butyl acetate		
WEL	Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm		
DNE	M c		

DNEL 1301 mg/kg /per day (Consumer, longterm systemic)

DNEL 13964 mg/kg /per day (Worker, longterm systemic)
DNEL 1377 mg/kg /per day (Consumer, longterm systemic)

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			(Contd. of -
Inhalative	DNEL 5	5306 mg/m3 (Worker, longterm systemic)	(Contd. of p
		1131 mg/m3 (Consumer, longterm systemic)	
141-78-6 е			
Oral	•	4.5 mg/kg /per day (Consumer, longterm systemic)	
Dermal		63 mg/kg /per day (Worker, longterm systemic)	
		37 mg/kg /per day (Consumer, longterm systemic)	
Inhalative		734 mg/m3 /200 ppm (Worker, longterm systemic)	
		1468 mg/m3 /400 ppm (Worker, acure systemic)	
		734 mg/m3 /200 ppm (Worker, longterm local)	
	DNEL I	1468 mg/m3 /400 ppm (Worker, acute local)	
		367 mg/m3 /100 ppm (Consumer, longterm systemic)	
		734 mg/m3 /200 ppm (Consumer; acute systemic)	
		367 mg/m3 /100 ppm (Consumer, longterm local)	
		734 mg/m3 /200 ppm (Consumer, acute local)	
108-65-6 2		y-1-methylethyl acetate	
Dermal		796 mg/kg /per day (Worker, longterm systemic)	
		320 mg/kg /per day (Consumer, longterm systemic)	
Inhalative	DNEL 2	275 mg/m3 (Worker, longterm systemic)	
	DNEL 3	33 mg/m3 (Consumer, longterm systemic)	
123-86-4 n	-butyl ac	cetate	
Oral	DNEL 2	2 mg/kg /per day (Consumer, longterm systemic)	
	DNEL 2	2 mg/kg /per day (Consumer, acute systemic)	
Dermal	DNEL I	l1 mg/kg /per day (Worker, longterm systemic)	
	DNEL I	11 mg/kg /per day (Worker, acute systemic)	
	DNEL (	5 mg/kg /per day (Consumer, longterm systemic)	
	DNEL 6	5 mg/kg /per day (Consumer, acute systemic)	
Inhalative	DNEL 3	300 mg/m3 (Worker, longterm systemic)	
	DNEL 6	600 mg/m3 (Worker, acure systemic)	
	DNEL 3	300 mg/m3 (Worker, longterm local)	
	DNEL 6	600 mg/m3 (Worker, acute local)	
	DNEL 3	35.7 mg/m3 (Consumer, longterm systemic)	
	DNEL 3	300 mg/m3 (Consumer; acute systemic)	
	DNEL 3	35.7 mg/m3 (Consumer, longterm local)	
PNECs			
108-65-62	-methox	y-1-methylethyl acetate	
PNEC 0.6	35 mg/l (	Freshwater)	
PNEC 0.0	64 mg/l (	Seawater)	
PNEC 100	) mg/l (Se	ewage treatment plant)	
PNEC 3.2	9 mg/kg	(Freshwater sediment)	
PNEC 0.329 mg/kg (Seawater sediment)			
PNEC 0.2	9 mg/kg	(Soil)	
123-86-4 n	-		
		Treshwater)	
PNEC 0.018 mg/l (Seawater)			
PNEC 0.36 mg/l (Sporadic release)			
PNEC 35.	6 mg/l (S	'ewage treatment plant)	
			(Contd. on

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PNEC 0.981 mg/kg (Freshwater sediment) PNEC 0.0981 mg/kg (Seawater sediment)

PNEC 0.0903 mg/kg (Soil)

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Avoid contact with the eyes.

· Respiratory protection:



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter A2/P3

· Hand protection



Protective gloves

· Material of gloves

Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

Butyl rubber gloves with a thickness of 0.4 mm are resistant to:

Acetone: 480 min Butyl acetate: 60 min Ethyl acetate: 170 min Xylene: 42 min

Butyl rubber gloves with a thickness of 0.4 mm are solvent resistant for 42-480 minutes. As protective measure, we recommend that users and responsible persons for work safety assume solvent resistance length of 42 minutes. Considering the data in section 3 of this SDS, one can assume longer resistance length in particular cases.

· Eye/face protection



Tightly sealed goggles

## SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information

· Physical state Aerosol

· Colour: According to product specification

· Odour: Characteristic
· Odour threshold: Not determined.

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Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling	Chacre minea.
range	Not applicable, as aerosol.
Flammability	Not applicable.
Lower and upper explosion limit	That application.
Lower:	1.5 Vol % (106-97-8 butane (containing < 0,1 %
Lower.	butadiene (203-450-8)))
Upper:	11.5 Vol % (141-78-6 ethyl acetate)
Flash point:	Not applicable, as aerosol.
Ignition temperature:	201 °C (393.8 °F) (Hydrocarbons, C6-C7, n-alkanes,
Ignition temperature.	isoalkanes, cyclics, <5% n-hexane)
Decomposition temperatures	Not determined.
Decomposition temperature:	
pH Viscosites	Mixture is non-soluble (in water).
Viscosity:	No. 1. ( )
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	N
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C (68 °F):	8300 hPa (6225.5 mm Hg) (74-98-6 propane)
Density and/or relative density	
Density at 20 °C (68 °F):	$0.8 \ g/cm^3 (6.7 \ lbs/gal)$
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Aerosol
Important information on protection of health and	d
environment, and on safety.	
Explosive properties:	Not determined.
Solvent content:	
Organic solvents:	84.9 %
VOC (EC)	
	679.4 g/l
VOC-EU%	84.92 %
Solids content:	14.7 %
Change in condition	1111 / 0
Evaporation rate	Not applicable.
	^^
Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Extremely flammable aerosol. Pressurised container:
	May burst if heated.
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable	
gases in contact with water	Void
~	Void Void
Oxidising liquids	
Oxidising solids	Void
Organia manavidas	
Organic peroxides Corrosive to metals	Void Void

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· Desensitised explosives

Void

## SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

# SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity

Acute toxicity			
LD/LC50 values relevant for classification:			
Hydrocarb	ons, C6-C7,	, n-alkanes, isoalkanes, cyclics, <5% n-hexane	
Oral	LD50	>5000 mg/kg (rat)	
Dermal	LD50	>2000 mg/kg (rat)	
Inhalative	LC50/4 h	>20 mg/m3 (rat)	
141-78-6 е	thyl acetate		
Oral	LD50	>18000 mg/kg (rab)	
Dermal	LD50	5620 mg/kg (rat)	
Inhalative	LC50/4 h	1600 mg/m3 (rat)	
108-65-6 2	-methoxy-1	-methylethyl acetate	
Oral	LD50	8530 mg/kg (rat)	
Dermal	LD50	>5000 mg/kg (rabbit)	
Inhalative   LC50 / 4 h   >10000 mg/m3 (rat)			
123-86-4 n-butyl acetate			
Oral	LD50	10800 mg/kg (rat) (OECD 401)	
Dermal	LD50	>17600 mg/kg (rabbit)	
Inhalative	LC50/4 h	>21 mg/m3 (rat)	
C1 '			

- · Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation No sensitising effects known.
- · STOT-single exposure May cause drowsiness or dizziness.
- · 11.2 Information on other hazards

· Endocrine disrupting properties	
78-93-3 butanone	List II

# SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

EC50 / 48 h 3 mg/l (daphnia magna / Wasserfloh)

EC50 / 72 h 30 mg/l (Pseudokirchneriella subcapitata)

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LC50 / 96 h | 11.4 mg/l (oncorhynchus mykiss / Regenbogenforelle)

#### 108-65-6 2-methoxy-1-methylethyl acetate

EC50/48 h > 500 mg/l (daphnia magna)

LC50 / 96 h 100-180 mg/l (oncorhynchus mykiss / Regenbogenforelle)

- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.
- · 12.7 Other adverse effects
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

# SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation:

Non contaminated packagings may be recycled.

Dispose of packaging according to regulations on the disposal of packagings.

CHOMIC	37 7 4	ATT.		
	IN 14.	Transpor	t intori	nation

· 14.1 UN	I number	or ID	number
-----------	----------	-------	--------

· ADR, IMDG, IATA UN1950

· 14.2 UN proper shipping name

· ADR 1950 AEROSOLS
· IMDG AEROSOLS

· IATA AEROSOLS, flammable

- · 14.3 Transport hazard class(es)
- $\cdot ADR$



· Class
 · Label
 2 5F Gases.
 2.1

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IMDG, IATA	
Class	2.1 Gases.
Label	2.1
14.4 Packing group	
ADR, IMDG, IATA	not regulated
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Gases.
Hazard identification number (Kemler code):	-
EMS Number:	F- $D$ , $S$ - $U$
Stowage Code	SW1 Protected from sources of heat.
	SW22 For AEROSOLS with a maximum capacity of 1
	litre: Category A. For AEROSOLS with a capacity abo
	1 litre: Category B. For WASTE AEROSOLS: Category
	C, Clear of living quarters.
Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1
	litre:
	Segregation as for class 9. Stow "separated from" class
	except for division 1.4.
	For AEROSOLS with a capacity above 1 litre:
	Segregation as for the appropriate subdivision of class
	For WASTE AEROSOLS:
	Segregation as for the appropriate subdivision of class
14.7 Maritime transport in bulk according to IM	10
instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities $(\widetilde{EQ})$	Code: E0
· · · · · · · · · · · · · · · · ·	Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	D
IMDG	
Limited quantities (LQ)	IL
Excepted quantities (EQ)	Code: E0
<del>-</del>	Not permitted as Excepted Quantity
UN ''Model Regulation'':	UN 1950 AEROSOLS, 2.1
UN ''Model Regulation'':	UN 1950 AEROSOLS, 2.1

# SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P3a FLAMMABLE AEROSOLS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

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· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

- Extremely flammable gas. H220
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.
- H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

#### · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1A: Flammable gases - Category 1A

Aerosol 1: Aerosols - Category 1

Press. Gas (Comp.): Gases under pressure - Compressed gas

Flam. Liq. 2: Flammable liquids - Category 2

Flam. Liq. 3: Flammable liquids - Category 3

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Carc. 2: Carcinogenicity - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

\* \* Data compared to the previous version altered.

#### **DISCLAIMER**

The information contained in this sheet comes from reliable sources. It has been drawn up based on our knowledge at the time of the most recent update, as indicated. This information is intended as an aid to the user and should not be considered as a guarantee.

Conditions or methods of handling, storage, use or disposal of the product are outside our control, and we may not be held responsible for any loss, damage or expenses incurred as a result of, or in connection with, the latter.

All substances or mixtures can present unknown dangers and must be used with caution. We cannot guarantee that all dangers have been set out in an exhaustive manner.

This sheet has been drawn up for, and must be used for, this product only. If the product is used as a component in another product, the information given with it may not be applicable.

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