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# **FLOW ADDITIVE**



SEC	TION 1: IDENTIFICATION OF T	HE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING				
1.1	Product identifier:	FLOW ADDITIVE				
	Other means of identification:					
	UFI:	8MW3-GPMY-2005-KRA7				
1.2	Relevant identified uses of the	substance or mixture and uses advised against:				
	Relevant uses: Additive for varnish	es and paints. For professional users/industrial user only.				
	Uses advised against: All uses not specified in this section or in section 7.3					
1.3	Details of the supplier of the s	afety data sheet:				
	Roberlo S.A.U. Ctra. Nacional II, Km. 706,5 17457 Riudellots de la Selva - Gerc Phone: +34 972 478060 (8:00-12: msds@roberlo.com	na - España 45 / 14:15-17:30 h) (GMT +1:00) - Fax: +34972477394				
1.4	Emergency telephone number:	+44 (0)1924 431679 / 112 / +34 972 478060 (8:00-12:45 / 14:15-17:30 h) ROBERLO (Spain) (GMT + 1:00)				

# SECTION 2: HAZARDS IDENTIFICATION \*\*

## 2.1 Classification of the substance or mixture:

### CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Flam. Liq. 3: Flammable liquids, Category 3, H226

STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336

### 2.2 Label elements:

### CLP Regulation (EC) No 1272/2008:

Warning



### Hazard statements:

H226 - Flammable liquid and vapour.

H336 - May cause drowsiness or dizziness.

## **Precautionary statements:**

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

P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P370+P378: In case of fire: Use ABC powder extinguisher to extinguish.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

#### Supplementary information:

EUH066: Repeated exposure may cause skin dryness or cracking.

### Substances that contribute to the classification

N-butyl acetate

UFI: 8MW3-GPMY-2005-KRA7

## 2.3 Other hazards:

Product does not meet PBT/vPvB criteria

Endocrine-disrupting properties: The product does not meet the criteria.

\*\* Changes with regards to the previous version

\*\* Changes with regards to the previous version



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# **FLOW ADDITIVE**

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS \*\*

### 3.1 Substance:

Non-applicable

## 3.2 Mixture:

#### Chemical description: Mixture composed of additives in solvents

### Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identif	Identification Chemical name/Classification			
CAS: 123-86-		N-butyl acetate <sup>(1)</sup>	ATP CLP00	
Index: 607-02	204-658-1 607-025-00-1 01-2119485493-29- XXXX	Regulation 1272/2008	Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning	50 - <75 %
1) Substances pr	esenting a health	or environmental hazard w	hich meet criteria laid down in Regulation (EU) No. 2020/878	

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

\*\* Changes with regards to the previous version

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

## By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

### By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

## By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

#### By ingestion/aspiration:

In case of consumption, seek immediate medical assistance showing the SDS for the product.

### 4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

## 4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media:

#### Suitable extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO2).

### Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

#### 5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.



## **FLOW ADDITIVE**



# SECTION 5: FIREFIGHTING MEASURES (continued)

#### 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

## Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures:

#### For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

# For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

#### 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

## 6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

## 6.4 Reference to other sections:

See sections 8 and 13.

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

### 7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

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# SECTION 7: HANDLING AND STORAGE (continued)

Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

## B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

### 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

	Identification	Occupational exposure limits			
N-butyl acetate		IOELV (8h)	50 ppm	241 mg/m <sup>3</sup>	
CAS: 123-86-4	EC: 204-658-1	IOELV (STEL)	150 ppm	723 mg/m <sup>3</sup>	

### DNEL (Workers):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
N-butyl acetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 123-86-4	Dermal	11 mg/kg	Non-applicable	11 mg/kg	Non-applicable
EC: 204-658-1	Inhalation	600 mg/m <sup>3</sup>	600 mg/m <sup>3</sup>	300 mg/m <sup>3</sup>	300 mg/m <sup>3</sup>

#### **DNEL (General population):**

		Short e	xposure	Long exposure	
Identification		Systemic	Local	Systemic	Local
N-butyl acetate	Oral	2 mg/kg	Non-applicable	2 mg/kg	Non-applicable
CAS: 123-86-4	Dermal	6 mg/kg	Non-applicable	6 mg/kg	Non-applicable
EC: 204-658-1	Inhalation	300 mg/m <sup>3</sup>	300 mg/m <sup>3</sup>	35,7 mg/m <sup>3</sup>	35,7 mg/m <sup>3</sup>

#### PNEC:

Identification				
N-butyl acetate	STP	35,6 mg/L	Fresh water	0,18 mg/L
CAS: 123-86-4	Soil	0,09 mg/kg	Marine water	0,018 mg/L
EC: 204-658-1	Intermittent	0,36 mg/L	Sediment (Fresh water)	0,981 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,098 mg/kg

### 8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

#### B.- Respiratory protection

	Pictogram	PPE	Labelling	CEN Standard	Remarks			
	Mandatory respiratory tract protection	Filter mask for gases and vapours		EN 405:2002+A1:2010	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.			
C	C Specific protection for the hands							



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With disposible denial gives       Exist System       Intermediation of the indicated by the material material frame indicated by the material material material material frame indicated by the material material frame indicated by the material mate		Pictogram		PPE	Labelling		CEN Standard		Remarks
Instrumentation of the set of the s		protection	prote	ective gloves		EN 1 E	6523-1:2015+A1:2018 EN ISO 21420:2020	manufa the p crear	acturer must exceed the period during wh roduct is being used. Do not use protectiv ms after the product has come into contac with skin.
D- Eye and face protection         Petogram       PPE       Labeling       CEN Standard       Remarks         Windextory face       Face shield       CEN       File 52:002       Clean daily and disinfect periodically according the manufacturer's instructions. Use if three is file stations. The professional use only. Clean periodically according to the manufacturer's instructions. If the opposite is file statistic and fiel file statistic and file file statistic and fiel file statistic and file file s								rial car	n not be calculated in advance with
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Image: Note: Standards       Env 167:2002 EN 150:4607:2018       Char and districts periodically according to the mainfacture is insist of splashing.         E- Body protection         Text Standards       Remarks       Rema		Pictogram		PPE	Labelling		CEN Standard		Remarks
Prictogram         PPE         Labelling         CEN Standard         Remarks           Image: Standard Sta			Fa	ace shield	CAT II		EN 167:2002 EN 168:2002	Clean the m	nanufacturer's instructions. Use if there is
Image: Second	Ε.	Body protection						•	
Image: Comparison of the product of		Pictogram		PPE	Labelling		CEN Standard		Remarks
Windextrop foot received on received on the product of the produc			protection risks, wi	against chemical th antistatic and	CAT III		13034:2005+A1:2009 EN ISO 13982- 1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013		
Emergency measure       Standards       Emergency measure       Standards         Image: Comparison of the standards       ANSI 2358-1 ISO 3864-1:2011, ISO 3864-4:2011       Image: Comparison of the standards       DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011         Environmental exposure controls:       In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D       Volatile organic compounds:         With regard to Directive 2010/75/EU, this product has the following characteristics:       V.O.C. (Supply): 70 % weight         V.O.C. (Supply):       70 % weight         V.O.C. density at 20 °C:       693 kg/m³ (693 g/L)         Average carbon number:       6         Average molecular weight:       116,2 g/mol         TION 9: PHYSICAL AND CHEMICAL PROPERTIES         Information on basic physical and chemical properties:         For complete information see the product datasheet.         Appearance:         Physical state at 20 °C:       Liquid			protection risk, with a	against chemical antistatic and heat		E	EN ISO 20345:2011	Re	eplace boots at any sign of deterioration.
ANSI Z358-1       Image: Display the product of the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.0       DIN 12 899         Volatile organic compounds:         With regard to Directive 2010/75/EU, this product has the following characteristics:         V.O.C. (Supply):       70 % weight         V.O.C. density at 20 °C:       693 kg/m³ (693 g/L)         Average carbon number:       6         Average molecular weight:       116,2 g/mol         TION 9: PHYSICAL AND CHEMICAL PROPERTIES         Information on basic physical and chemical properties:         For complete information see the product datasheet.         Appearance:       Physical state at 20 °C:       Liquid	F.	- Additional emerge	ency mea	sures			1		
Image: District Structure       ANST 2358-1 ISO 3864-1:2011, ISO 3864-4:2011       Image: District Structure       DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011         Environmental exposure controls:       Image: District Structure       Image: District Structure       Image: District Structure         Image: District Structure       Image: District Structure       Image: District Structure       Image: District Structure         Volatile organic compounds:       Image: District Structure       Image: District Structure       Image: District Structure         Vol.C. (Supply):       70 % weight       Image: District Structure       Image: District Structure       Image: District Structure         Vol.C. (Supply):       70 % weight       Image: District Structure       Image: Distructure       Image: Distructure       Image:		Emergency mea	isure	Sta	andards		Emergency measu	ire	Standards
Environmental exposure controls:         In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D         Volatile organic compounds:         With regard to Directive 2010/75/EU, this product has the following characteristics:         V.O.C. (Supply):       70 % weight         V.O.C. density at 20 °C:       693 kg/m³ (693 g/L)         Average carbon number:       6         Average molecular weight:       116,2 g/mol         TION 9: PHYSICAL AND CHEMICAL PROPERTIES         Information on basic physical and chemical properties:         For complete information see the product datasheet.         Appearance:         Physical state at 20 °C:       Liquid						011	T	-	
In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D Volatile organic compounds: With regard to Directive 2010/75/EU, this product has the following characteristics: V.O.C. (Supply): 70 % weight V.O.C. density at 20 °C: 693 kg/m³ (693 g/L) Average carbon number: 6 Average molecular weight: 116,2 g/mol TION 9: PHYSICAL AND CHEMICAL PROPERTIES Information on basic physical and chemical properties: For complete information see the product datasheet. Appearance: Physical state at 20 °C: Liquid	с.			ntrolo			Eyewash stations	5	
Average molecular weight:       116,2 g/mol         TION 9: PHYSICAL AND CHEMICAL PROPERTIES         Information on basic physical and chemical properties:         For complete information see the product datasheet.         Appearance:         Physical state at 20 °C:       Liquid	sp Vo	illage of both the p <b>platile organic co</b> ith regard to Direct V.O.C. (Supply): V.O.C. density at	roduct an <b>mpound</b> ive 2010/ 20 ºC:	d its container. I <b>s:</b> 75/EU, this proc 70 % 693 k	For additional luct has the fo weight	inform Ilowing	ation see subsection		
Information on basic physical and chemical properties:         For complete information see the product datasheet.         Appearance:         Physical state at 20 °C:       Liquid		-			g/mol				
For complete information see the product datasheet.         Appearance:         Physical state at 20 °C:       Liquid	TIO	N 9: PHYSICAL A	AND CHI	Emical Prop	ERTIES				
Appearance:Physical state at 20 °C:Liquid						s:			
Physical state at 20 °C: Liquid			tion see t	he product data	isheet.				
	-	-	_						
Appearance: Fluid		-	C:						
*Not relevant due to the nature of the product, not providing information property of its hazards.	Ap	pearance:			Flui	d			

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SECT	TION 9: PHYSICAL AND CHEMICAL PROPERTIE	S (continued)
	Colour:	Colourless
	Odour:	Characteristic
	Odour threshold:	Non-applicable *
	Volatility:	
	Boiling point at atmospheric pressure:	126 °C
	Vapour pressure at 20 °C:	1256 Pa
	Vapour pressure at 50 °C:	6156,21 Pa (6,16 kPa)
	Evaporation rate at 20 °C:	Non-applicable *
	Product description:	
	Density at 20 °C:	990 kg/m³
	Relative density at 20 °C:	Non-applicable *
	Dynamic viscosity at 20 °C:	28 cP
	Kinematic viscosity at 20 °C:	Non-applicable *
	Kinematic viscosity at 40 °C:	Non-applicable *
	Concentration:	Non-applicable *
	pH:	Non-applicable *
	Vapour density at 20 °C:	Non-applicable *
	Partition coefficient n-octanol/water 20 °C:	Non-applicable *
	Solubility in water at 20 °C:	Non-applicable *
	Solubility properties:	Immiscible
	Decomposition temperature:	Non-applicable *
	Melting point/freezing point:	Non-applicable *
	Flammability:	
	Flash Point:	24 °C
	Flammability (solid, gas):	Non-applicable *
	Autoignition temperature:	421 °C
	Lower flammability limit:	Not available
	Upper flammability limit:	Not available
	Particle characteristics:	
	Median equivalent diameter:	Non-applicable
9.2	Other information:	
	Information with regard to physical hazard clas	ses:
	Explosive properties:	Non-applicable *
	Oxidising properties:	Non-applicable *
	Corrosive to metals:	Non-applicable *
	Heat of combustion:	Non-applicable *
	Aerosols-total percentage (by mass) of flammable components:	Non-applicable *
	Other safety characteristics:	
	Surface tension at 20 °C:	Non-applicable *
	Refraction index:	Non-applicable *
	*Not relevant due to the nature of the product, not providing info	rmation property of its hazards.

# SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:



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## SECTION 10: STABILITY AND REACTIVITY (continued)

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

## **10.2** Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

## 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

#### **10.5** Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

#### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

The experimental information related to the toxicological properties of the product itself is not available

#### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3

- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

B- Inhalation (acute effect):

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

- Corrosivity/Irritability:
- C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for skin contact. For more information see section 3.

- Contact with the eyes: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
  - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
  - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.

- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.



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# SECTION 11: TOXICOLOGICAL INFORMATION (continued)

F- Specific target organ toxicity (STOT) - single exposure:

Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
  - Skin: Repeated exposure may cause skin dryness or cracking
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

## Other information:

Non-applicable

#### Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
N-butyl acetate	LD50 oral	12789 mg/kg	Rat
CAS: 123-86-4	LD50 dermal	14112 mg/kg	Rabbit
EC: 204-658-1	LC50 inhalation	23,4 mg/L (4 h)	Rat

### 11.2 Information on other hazards:

### Endocrine disrupting properties

Endocrine-disrupting properties: The product does not meet the criteria.

#### **Other information**

Non-applicable

### SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

NOEC

# 12.1 Toxicity:

### Acute toxicity:

-					
Identification		Concentration	Species	Genus	
N-butyl acetate	LC50	Non-applicable			
CAS: 123-86-4	EC50	Non-applicable			
EC: 204-658-1	EC50	675 mg/L (72 h)	Scenedesmus subspicatus	Algae	
Chronic toxicity:					
Identification		Concentration	Species	Genus	
N-butyl acetate	NOEC	Non-applicable			

23,2 mg/L

## 12.2 Persistence and degradability:

CAS: 123-86-4 EC: 204-658-1

# Substance-specific information:

Identification	De	gradability	Biodeg	Biodegradability		
N-butyl acetate	BOD5	Non-applicable	Concentration	Non-applicable		
CAS: 123-86-4	COD	Non-applicable	Period	5 days		
EC: 204-658-1	BOD5/COD	Non-applicable	% Biodegradable	84 %		
Pioaccumulative potential						

### **12.3 Bioaccumulative potential:**

Substance-specific information:

Crustacean

Daphnia magna



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific

legislation



**FLOW ADDITIVE** 

# SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Bioaccumulation potential		
N-butyl acetate	BCF	4	
CAS: 123-86-4	Pow Log	1.78	
EC: 204-658-1	Potential	Low	

### 12.4 Mobility in soil:

Identification	Identification Absorption/desorption		Volatility	
N-butyl acetate	Кос	Non-applicable	Henry	Non-applicable
CAS: 123-86-4	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 204-658-1	Surface tension	2,478E-2 N/m (25 °C)	Moist soil	Non-applicable

# 12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product does not meet the criteria.

### 12.7 Other adverse effects:

Not described

# SECTION 13: DISPOSAL CONSIDERATIONS

## **13.1** Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)	
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	Dangerous	

### Type of waste (Regulation (EU) No 1357/2014):

HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

#### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

#### **Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

## SECTION 14: TRANSPORT INFORMATION

#### Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:

	14.2	UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels:	UN1263 PAINT RELATED MATERIAL 3 3
	14.4	Packing group:	III
3	14.5	Environmental hazards:	No
•	14.6	Special precautions for user	
		Special regulations:	163, 367, 650
		Tunnel restriction code:	D/E
		Physico-Chemical properties:	see section 9
		Limited quantities:	5 L
	14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable

Safety data sheet This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation





# **FLOW ADDITIVE**

TION 14: TRANSPORT INFORMATION (continued)				
Transport of dangerous goods by sea:				
With regard to IM	- 1DG 40	-20:		
5	14.1	UN number or ID number:	UN1263	
	14.2	UN proper shipping name:	PAINT RELATED MATERIAL	
and a second	14.3	Transport hazard class(es): Labels:	3 3	
$\langle - \rangle$	14.4	Packing group:	III	
3	14.5	Marine pollutant:	No	
	14.6	Special precautions for user		
		Special regulations:	163, 223, 955, 367	
		EmS Codes:	F-E, S-E	
		Physico-Chemical properties:	see section 9	
		Limited quantities:	5 L	
		Segregation group:	Non-applicable	
	14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable	
Transport of da	ngero	us goods by air:		
With regard to IA	TA/ICA	0 2023:		
	14.1	UN number or ID number:	UN1263	
		UN proper shipping name:	PAINT RELATED MATERIAL	
$\langle \simeq \rangle$	14.3	Transport hazard class(es):	3	
		Labels:	3	
3		Packing group:	III	
		Environmental hazards: Special precautions for user	No	
		Physico-Chemical properties:	see section 9	
	14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable	

# SECTION 15: REGULATORY INFORMATION

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

# Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements				
P5c	FLAMMABLE LIQUIDS	5000	50000				
Limitations	to commercialisation and the use of certain dangerous substances and mix	xtures (Annex )	XVII REACH,				
etc):	etc):						
Shall not be used in: —ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,							
—games for	tricks and jokes, games for one or more participants, or any article intended to be used as such, even with ornamental aspects.						

Specific provisions in terms of protecting people or the environment:

legislation



## **FLOW ADDITIVE**



# SECTION 15: REGULATORY INFORMATION (continued)

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

## Other legislation:

The product could be affected by sectorial legislation

### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

# SECTION 16: OTHER INFORMATION

### Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

### Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

COMMISSION REGULATION (EU) 2020/878

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3):

- Removed substances
- Butyl carbamate (592-35-8)

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

Precautionary statements

### Texts of the legislative phrases mentioned in section 2:

H336: May cause drowsiness or dizziness.

H226: Flammable liquid and vapour.

## Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

#### CLP Regulation (EC) No 1272/2008:

Flam. Liq. 3: H226 - Flammable liquid and vapour. STOT SE 3: H336 - May cause drowsiness or dizziness.

## **Classification procedure:**

STOT SE 3: Calculation method

Flam. Liq. 3: Calculation method (2.6.4.3)

# Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

#### Principal bibliographical sources:

http://echa.europa.eu

http://eur-lex.europa.eu

## Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50 LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon UFI: unique formula identifier IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.