

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)



BeFAST

Version: 3
Revision date: 09/08/2022

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SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING.

1.1 Product identifier.

Product Name: BLUEFAST
Product Code: IT00203
UFI: 6FS0-A98H-100N-P4KV
Substance identity who contribute to the mixture classification: tetrahydrofuran; butanone,ethyl methyl ketone; ethyl acetate

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

Solvent cement for PVC flexible

Uses advised against:

Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.

Maker:

Company: **IT3 S.A.**
Address: POL.IND. CAN BARRI C/ DELS ESQUEIS,25
City: 08415 BIGUES I RIELLS
Province: BARCELONA
Telephone: +34 938656828
E-mail: info@it3sa.com
Web: www.it3sa.com

Distributor:

Company: **Be Global Supplies, S.L.**
Address: C/. Sant Màrius, 13
City: 08021 Barcelona
Province: Barcelona

1.4 Emergency telephone number: +34 938656828 (Only available during office hours; Monday-Thursday; 08:00-17:00 – Friday; 08:00-14:00)

Toxicological information (National Institute of forensic science and toxicology) service phone: + 34 915620420. Information in Spanish (24 h/365 days). Only with the purpose of providing emergency health response.

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the mixture.

In accordance with Regulation (EU) No 1272/2008:

- Carc. 2 : Suspected of causing cancer.
- Eye Irrit. 2 : Causes serious eye irritation.
- Flam. Liq. 2 : Highly flammable liquid and vapour.
- STOT SE 3 : May cause drowsiness or dizziness.
- Acute Tox. 4 : Harmful if inhaled.

2.2 Label elements.

Labelling in accordance with Regulation (EU) No 1272/2008:

Pictograms:



Signal Word:

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Danger

H statements:

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.

P statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243	Take action to prevent static discharges.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to an authorized point of treatment.

EUH statements:

EUH019	Peut former des peroxydes explosifs
EUH066	Repeated exposure may cause skin dryness or cracking. Restricted to professional users.

Contains:

tetrahydrofuran
butanone,ethyl methyl ketone
ethyl acetate

2.3 Other hazards.

The product may have the following additional risks:
Do not ingest

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Not Applicable.

3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

Identifiers	Name	Concentrate	(*)Classification - Regulation (EC) No 1272/2008	
			Classification	specific concentration limit
Index No: 606-002-00-3 CAS No: 78-93-3 EC No: 201-159-0 Registration No: 01-2119457290-43-XXXX	[1] butanone,ethyl methyl ketone	$\geq 25\% < 50\%$	Eye Irrit. 2, H319 - Flam. Liq. 2, H225 - STOT SE 3, H336 EUH066	-
Index No: 607-022-00-5 CAS No: 141-78-6 EC No: 205-500-4 Registration No: 01-2119475103-46-XXXX	[1] ethyl acetate	$\geq 25\% < 50\%$	Eye Irrit. 2, H319 - Flam. Liq. 2, H225 - STOT SE 3, H336 EUH066	-

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Index No: 603-025-00-0 CAS No: 109-99-9 EC No: 203-726-8 Registration No: 01-2119444314-46-XXXX	[1] tetrahydrofuran	>= 2,5% < 10%	Acute Tox. 4, H302 - Carc. 2, H351 - Eye Irrit. 2, H319 - Flam. Liq. 2, H225 - STOT SE 3, H335 EUH019	Eye Irrit. 2, H319: C ≥ 25 % STOT SE 3, H335: C ≥ 25 %
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(*) The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

[1] Substance with a Community workplace exposure limit (see section 8.1).

SECTION 4: FIRST AID MEASURES.

4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance. The use of personal protective equipment is recommended for people providing first aid (see section 8).

Eye contact.

Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance. Don't let the person to rub the affected eye.

Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

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

Irritant Product, repeated or prolonged contact with skin or mucous membranes can cause redness, blisters or dermatitis, inhalation of spray mist or particles in suspension may cause irritation of the respiratory tract, some symptoms may not be immediate.

Harmful Product, prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance.

Long-term chronic exposure may result in injury to certain organs or tissues.

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Keep the person comfortable. Turn him/her over to the left side and stay there while waiting for medical care.

SECTION 5: FIREFIGHTING MEASURES.

The product is highly flammable, it can cause or considerably worsen a fire, the necessary prevention measures should be taken and risks avoided. In case of fire, the following measures are recommended:

5.1 Extinguishing media.

Suitable extinguishing media:

Extinguisher powder or CO₂. In case of more serious fires, also alcohol-resistant foam and water spray.

Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

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5.2 Special hazards arising from the mixture.

Special risks.

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

During a fire and depending on its magnitude the following may occur:

- Flammable vapors or gases.

5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways. Follow the instructions given in the emergency or fire evacuation plan or plans if available.

Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots. During extinction and depending on the magnitude and proximity to the fire, additional protective equipment such as chemical protection gloves, heat-reflecting suits or gas-tight suits may be required.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

Eliminate possible ignition points and ventilate the area. No smoking. Avoid breathing fumes. For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions.

Prevent the contamination of drains, surface or subterranean waters, and the ground.

6.3 Methods and material for containment and cleaning up.

Pick up the spill with non-combustible absorbent materials (soil, sand, vermiculite, diatomite, etc.). Pour the product and the absorbent in an appropriate container. The contaminated area should be immediately cleaned with an appropriate decontaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

The fumes are heavier than air and can spread across the ground. They can form explosive mixtures with air. Prevent the creation of flammable or explosive fume concentrations in the air; prevent fume concentrations above work exposure limits. The product must only be used in areas where all unprotected flames and other ignition points have been eliminated. Electrical equipment has to be protected according to applicable standards.

The product can be electrostatically charged: always use earth grounds when transferring the product. Operators must use anti-static footwear and clothing, and floors must be conductors.

Keep the container tightly closed and isolated from heat sources, sparks, and fire. Do not use tools that can cause sparks. For personal protection, see section 8.

In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 35° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorized persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

The product is not affected by Directive 2012/18/EU (SEVESO III).

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7.3 Specific end use(s).
Solvent cement for PVC flexible

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m ³
butanone,ethyl methyl ketone	78-93-3	Deutschland [1]	Eight hours	200	600
			Short term	800	2400
		España [2]	Eight hours	200	600
			Short term	300	900
		European Union [3]	Eight hours	200	600
			Short term	300	900
		France [4]	Eight hours	200	600
			Short term	300	900
		United Kingdom [5]	Eight hours	200	600
			Short term	300	899
		Portugal [6]	Eight hours	200	
			Short term	300	
		Sverige [7]	Eight hours	50	150
			Short term	100	300
		United States [8] (Cal/OSHA)	Eight hours	200	
			Short term	300	
United States [9] (NIOSH)	Eight hours	200			
	Short term	300			
United States [10] (OSHA)	Eight hours	200	590		
	Short term				
ethyl acetate	141-78-6	Deutschland [1]	Eight hours	400	1500
			Short term		
		España [2]	Eight hours	200	734
			Short term	400	1468
		European Union [3]	Eight hours	200	734
			Short term	400	1468
		France [4]	Eight hours	400	1400
			Short term		
		United Kingdom [5]	Eight hours	200	
			Short term	400	
		Portugal [6]	Eight hours	400	
			Short term		
		Sverige [7]	Eight hours	150	500
			Short term	300	1100
		United States [8] (Cal/OSHA)	Eight hours	400	
			Short term		
United States [9] (NIOSH)	Eight hours	400			
	Short term				
United States [10] (OSHA)	Eight hours	400	1400		
	Short term				
tetrahydrofuran	109-99-9	Deutschland [1]	Eight hours	50	150
			Short term	100	300
		España [2]	Eight hours	50	150

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			Short term	100	300
European Union [3]		Eight hours	50 (skin)	150 (skin)	
		Short term	100 (skin)	300 (skin)	
France [4]		Eight hours	50	150	
		Short term	100	300	
United Kingdom [5]		Eight hours	50	150	
		Short term	100	300	
Portugal [6]		Eight hours	50		
		Short term	100		
Sverige [7]		Eight hours	50	150	
		Short term	80	250	

Biological exposure limit values for:

Name	CAS No.	Country	Biological indicator	BLV	Sampling time
butanone,ethyl methyl ketone	78-93-3	España [2]	Metiletilcetona en orina	2 mg/l	Final de la jornada laboral
		Portugal [6]	Metiletilcetona (MEK) na urina	2 mg/L	Fim do turno
tetrahydrofuran	109-99-9	España [2]	Tetrahidrofurano en orina	2 mg/l	Final de la jornada laboral
		Portugal [6]	Tetrahidrofurano na urina	2 mg/L	Fim do turno

[1] Laut Grenzwerte in der Luft am Arbeitsplatz "Luftgrenzwerte" verabschiedet vom Bundesminister für Arbeit und Sozialordnung im Bundesarbeitsblatt.

[2] Según la lista de Valores Límite Ambientales de Exposición Profesional adoptados por el Instituto Nacional de Seguridad y Salud en el Trabajo (INSST) para el año 2018.

[3] According both Binding Occupational Exposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

[4] Selon la liste de Valeurs limites d'exposition professionnelle aux agents chimiques en France adoptés par Institut national de la recherche scientifique.

[5] According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adopted by Health and Safety Executive.

[6] De acordo com Português Padrão 1796 adotou pelo Instituto português de qualidade.

[7] According Occupational Exposure Limit Values and Measures against Air Contaminants adopted by Swedish Work Environment Authority.

[8] California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).

[9] National Institute for Occupational Safety and Health. NIOSH Recommendations for occupational safety and health, Compendium of Policy Documents and Statements, January, 1992, DHHS (NIOSH) Publication No. 92-100.

[10] Occupational Safety and Health Administration, United States Department of Labor. Permissible Exposure limits (PELs), California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
butanone,ethyl methyl ketone CAS No: 78-93-3 EC No: 201-159-0	DNEL (Workers)	Inhalation, Long-term, Systemic effects	600 (mg/m ³)
	DNEL (General population)	Inhalation, Long-term, Systemic effects	106 (mg/m ³)
	DNEL (Workers)	Dermal, Long-term, Systemic effects	1161 (mg/kg bw/day)
	DNEL (General population)	Dermal, Long-term, Systemic effects	412 (mg/kg bw/day)
	DNEL (General population)	Oral, Long-term, Systemic effects	31 (mg/kg bw/day)
	DMEL (General population)	Inhalation, Long-term, Systemic effects	106 (mg/m ³)

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	DMEL (General population)	Dermal, Long-term, Systemic effects	412 (mg/m ³)
ethyl acetate CAS No: 141-78-6 EC No: 205-500-4	DNEL (Workers)	Inhalation, Long-term, Systemic effects	734 (mg/m ³)
	DNEL (Workers)	Inhalation, Long-term, Local effects	734 (mg/m ³)
	DNEL (General population)	Inhalation, Long-term, Local effects	367 (mg/m ³)
	DNEL (Workers)	Inhalation, Acute, Local effects	1468 (mg/m ³)
	DNEL (General population)	Inhalation, Acute, Local effects	734 (mg/m ³)
	DNEL (Workers)	Dermal, Long-term, Systemic effects	63 (mg/kg bw/day)
	DNEL (General population)	Dermal, Long-term, Systemic effects	37 (mg/kg bw/day)
	DNEL (General population)	Oral, Long-term, Systemic effects	37 (mg/kg bw/day)
	tetrahydrofuran CAS No: 109-99-9 EC No: 203-726-8	DNEL (Workers)	Inhalation, Long-term, Local effects
DNEL (Workers)		Inhalation, Long-term, Systemic effects	150 (mg/m ³)
DNEL (Workers)		Dermal, Long-term, Systemic effects	25 (mg/kg bw/d)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

Concentration levels PNEC:

Name	Details	Value
butanone,ethyl methyl ketone CAS No: 78-93-3 EC No: 201-159-0	water (freshwater)	55,8 (mg/L)
	water (marine water)	55,8 (mg/L)
	Soil	22,5 (mg/kg soil dw)
	water (intermittent releases)	55,8 (mg/L)
	STP	709 (mg/L)
	sediment (freshwater)	284,74 (mg/kg sediment dw)
	sediment (marine water)	284,7 (mg/kg sediment dw)
	oral (Hazard for predators)	1000 (mg/kg food)
	ethyl acetate CAS No: 141-78-6 EC No: 205-500-4	water (freshwater)
water (marine water)		0,024 (mg/L)
water (intermittent releases)		1,65 (mg/L)
sediment (freshwater)		1,15 (mg/L)
sediment (marine water)		0,115 (mg/L)
Soil		0,148 (mg/kg soil dw)
STP		650 (mg/L)
oral (Hazard for predators)		0,2 (g/kg food)
tetrahydrofuran CAS No: 109-99-9 EC No: 203-726-8	Fresh water	4,32 (mg/L)
	Sea water	0,432 (mg/L)
	Water, periodic liberation	21,6 (mg/L)
	STP	4,6 (mg/L)
	Seawater sediments	23,3 (mg/Kg)
Soil	2,13 (mg/Kg)	

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PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

8.2 Exposure controls.

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration:	100 %				
Uses:	Solvent cement for PVC flexible				
Breathing protection:					
PPE:	Filter mask for protection against gases and particles.				
Characteristics:	«CE» marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight.				
CEN standards:	EN 136, EN 140, EN 405				
Maintenance:	Should not be stored in places exposed to high temperatures and damp environments before use. Special attention should be paid to the state of the inhalation and exhalation valves in the face adaptor.				
Observations:	Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols: P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer.				
Filter Type needed:	A2				
Hand protection:					
PPE:	Protective gloves against chemicals.				
Characteristics:	«CE» marking, category III.				
CEN standards:	EN 374-1, En 374-2, EN 374-3, EN 420				
Maintenance:	Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives.				
Observations:	Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Always use with clean, dry hands.				
Material:	Butyl	Breakthrough time (min.):	> 480	Material thickness (mm):	0,7
Eye protection:					
PPE:	Protective goggles with built-in frame.				
Characteristics:	«CE» marking, category II. Eye protector with built-in frame for protection against dust, smoke, fog and vapour.				
CEN standards:	EN 165, EN 166, EN 167, EN 168				
Maintenance:	Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions.				
Observations:	Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping etc.				
Skin protection:					
PPE:	Anti-static protective clothing.				
Characteristics:	«CE» marking, category II. Protective clothing should not be too tight or loose in order not to obstruct the user's movements.				
CEN standards:	EN 340, EN 1149-1, EN 1149-2, EN 1149-3, EN 1149-5				
Maintenance:	In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.				
Observations:	The protective clothing should offer a level of comfort in line with the level of protection provided in terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level of activity and the expected time of use.				
PPE:	Anti-static safety footwear.				
Characteristics:	«CE» marking, category II.				
CEN standards:	EN ISO 13287, EN ISO 20344, EN ISO 20346				
Maintenance:	The footwear should be checked regularly				
Observations:	The level of comfort during use and acceptability are factors that are assessed very differently depending on the user. Therefore, it is advisable to try on different footwear models and, if possible, different widths.				

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Physical state: Viscous liquid

Colour: Blue

Odour: Characteristic

Odour threshold: N.A./N.A.

Melting point: N.A./N.A.

Freezing point: N.A./N.A.

Boiling point or initial boiling point and boiling range: 79°C

Flammability: Highly flammable liquid and vapour.

Lower explosion limit: N.A./N.A.

Upper explosion limit: N.A./N.A.

Flash point: -6 °C

Auto-ignition temperature: N.A./N.A.

Decomposition temperature: N.A./N.A.

pH: N.A./N.A.

Viscosity: 13000-20000 cP at 20°C

Kinematic viscosity: N.A./N.A.

Solubility: N.A./N.A.

Hydrosolubility: N.A./N.A.

Liposolubility: N.A./N.A.

Partition coefficient n-octanol/water (log value): N.A./N.A.

Vapour pressure: 95.253mmHg

Absolute density: N.A./N.A.

Relative density: 0.911 gr/cm³

Relative vapour density: N.A./N.A.

Particle characteristics: N.A./N.A.

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

9.2 Other information.

Dropping point: N.A./N.A.

Blink: N.A./N.A.

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

The product does not present hazards by their reactivity.

10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions.

The product does not present possibility of hazardous reactions.

10.4 Conditions to avoid.

Avoid any improper handling.

10.5 Incompatible materials.

Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

10.6 Hazardous decomposition products.

No decomposition if used for the intended uses.

SECTION 11: TOXICOLOGICAL INFORMATION.

IRRITANT PREPARATION. Splatters in the eyes can cause irritation.

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IRRITANT PREPARATION. The inhalation of spray mist or suspended particulates can irritate the respiratory tract. It can also cause serious respiratory difficulties, central nervous system disorders, and in extreme cases, unconsciousness.

11.1 Information on hazard classes as defined in Regulation (EC) N° 1272/2008.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.

Splatters in the eyes can cause irritation and reversible damage.

Toxicological information about the substances present in the composition.

Name	Acute toxicity			
	Type	Test	Kind	Value
butanone,ethyl methyl ketone CAS No: 78-93-3 EC No: 201-159-0	Oral	LD50	Rat	2740 mg/kg bw [1]
		LD50	Rat	4.29 mL/kg bw [2]
		LD50	Rat (male)	2054 mg/kg [3]
		LD50	Rat (female)	2328 mg/kg [4]
				[1] Toxicology and Applied Pharmacology. Vol. 19, Pg. 699, 1971 [2] OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method) [3] OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method) -reliability scoring was based on 2001 guideline. [4] OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method) -reliability scoring was based on 2001 guideline.
	Dermal	LD50	Rabbit	6480 mg/kg bw [1]
		LD50	Rabbit	>10 mL/kg bw [2]
				[1] Shell Chemical Company. Vol. MSDS-5390-4 [2] OECD Guideline 402 (Acute Dermal Toxicity), Range-Finding Toxicity Data: List VI, Smyth H, Carpenter C, Weil C, Pozzani U, & Striegel J, 1962.
	Inhalation			
ethyl acetate CAS No: 141-78-6 EC No: 205-500-4	Oral	LD50	Rat	5620 mg/kg [1]
		LD50	Rabbit	4934 mg/L [2]
	Dermal	LD50	Rabbit	> 18000 mg/kg bw [1]
				[1] Union Carbide Data Sheet. Vol. 10/4/1968
	Inhalation	LC0	Rat	22.5 mg/L (6H)
tetrahydrofuran CAS No: 109-99-9 EC No: 203-726-8	Oral	LD50	Rat	2816 mg/kg
	Dermal			
	Inhalation			

a) acute toxicity;

Product classified:

Acute toxicity (Inhalation), Category 4: Harmful if inhaled.

Acute Toxicity Estimate (ATE):

Mixtures:

ATE (Oral) = 8.385 mg/kg

b) skin corrosion/irritation;

Not conclusive data for classification.

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c) serious eye damage/irritation;
Product classified:
Eye irritation, Category 2: Causes serious eye irritation.

d) respiratory or skin sensitisation;
Not conclusive data for classification.

e) germ cell mutagenicity;
Not conclusive data for classification.

f) carcinogenicity;
Product classified:
Carcinogen, Category 2: Suspected of causing cancer.

g) reproductive toxicity;
Not conclusive data for classification.

h) STOT-single exposure;
Product classified:
Specific target organ toxicity following a single exposure, Category 3: May cause drowsiness or dizziness.

i) STOT-repeated exposure;
Not conclusive data for classification.

j) aspiration hazard;
Not conclusive data for classification.

11.2 Information on other hazards.

Endocrine disrupting properties

This product does not contain components with endocrine-disrupting properties with effects on human health.

Other information

There is no information available on other adverse health effects.

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

Name	Ecotoxicity			
	Type	Test	Kind	Value
butanone,ethyl methyl ketone	Fish		Fish	
			Pimephales	
		LC50	promelas	3220 mg/l (96 h) [1]
		LC50	Pimephales	2993 mg/l (96 h) [2]
		EC0	promelas	1848 mg/l (96 h) [3]
		LC50	Pimephales	1816 mg/l (24 h) [4]
		promelas	1656 mg/l (72 h) [5]	
		Pimephales		
		promelas		

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CAS No: 78-93-3 EC No: 201-159-0		<p>[1] Brooke, L.T., D.J. Call, D.L. Geiger, and C.E. Northcott 1984. Acute Toxicities of Organic Chemicals to Fathead Minnows (<i>Pimephales promelas</i>), Vol. 1. Center for Lake Superior Environmental Stud., Univ.of Wisconsin-Superior, Superior, WI :414</p> <p>[2] Experimental result, 1998.</p> <p>[3] Experimental result, 1998.</p> <p>[4] Experimental result, 1998.</p> <p>[5] Experimental result, 1998.</p>																		
	Aquatic invertebrates	<table border="0"> <tr> <td>EC50</td> <td>Crustacean</td> <td>5090 mg/l (48 h) [1]</td> </tr> <tr> <td>EC50</td> <td>Daphnia magna</td> <td>308 mg/l (48 h) [2]</td> </tr> <tr> <td>EC0</td> <td>Daphnia magna</td> <td>136 mg/l (48 h) [3]</td> </tr> <tr> <td>LC50</td> <td>Daphnia magna</td> <td>8890 mg/l (24 h) [4]</td> </tr> <tr> <td>LC100</td> <td>Daphnia magna</td> <td>>10000 mg/l (24 h) [5]</td> </tr> </table> <p>[1] Randall, T.L., and P.V. Knopp 1980. Detoxification of Specific Organic Substances by Wet Oxidation. J.Water Pollut.Control Fed. 52(8):2117-2130</p> <p>[2] OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) reliability scoring based on 2002 guideline.</p> <p>[3] OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) reliability scoring based on 2002 guideline.</p> <p>[4] Experimental result, 1977.</p> <p>[5] Experimental result, 1977.</p>	EC50	Crustacean	5090 mg/l (48 h) [1]	EC50	Daphnia magna	308 mg/l (48 h) [2]	EC0	Daphnia magna	136 mg/l (48 h) [3]	LC50	Daphnia magna	8890 mg/l (24 h) [4]	LC100	Daphnia magna	>10000 mg/l (24 h) [5]			
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EC50	Daphnia magna	308 mg/l (48 h) [2]																		
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Aquatic plants	<table border="0"> <tr> <td>CE50</td> <td>Desmodesmus</td> <td></td> </tr> <tr> <td>EC50</td> <td>subspicatus</td> <td></td> </tr> <tr> <td>EC50</td> <td>Pseudokirchnerell</td> <td>>100 mg/L (7 dias)</td> </tr> <tr> <td>TT</td> <td>a subcapitata</td> <td>2029 mg/l (96 h) [1]</td> </tr> <tr> <td>(toxicity threshold concentration)</td> <td>Pseudokirchnerell a subcapitata</td> <td>1888 mg/l (48 h) [2]</td> </tr> <tr> <td></td> <td>Scenedesmus quadricauda</td> <td>4300 mg/l (8 d) [3]</td> </tr> </table> <p>[1] OECD Guideline 201 (Alga, Growth Inhibition Test) reliability based in 2006 guideline.</p> <p>[2] OECD Guideline 201 (Alga, Growth Inhibition Test) reliability based in 2006 guideline.</p> <p>[3] Experimental result, 1976.</p>	CE50	Desmodesmus		EC50	subspicatus		EC50	Pseudokirchnerell	>100 mg/L (7 dias)	TT	a subcapitata	2029 mg/l (96 h) [1]	(toxicity threshold concentration)	Pseudokirchnerell a subcapitata	1888 mg/l (48 h) [2]		Scenedesmus quadricauda	4300 mg/l (8 d) [3]	
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ethyl acetate	Fish	<table border="0"> <tr> <td></td> <td>Pimephales promelas</td> <td></td> </tr> <tr> <td>LC50</td> <td>Pimephales promelas</td> <td>230 mg/L (96h) [1]</td> </tr> <tr> <td>LC50</td> <td>Pimephales promelas</td> <td>230 mg/l (96 h) [2]</td> </tr> <tr> <td>EC50</td> <td>Pimephales promelas</td> <td>220 mg/l (96 h) [3]</td> </tr> </table> <p>[1] EPA E03-05</p> <p>[2] US EPA method E03-05, 1984</p> <p>[3] US EPA method E03-05, 1984</p>		Pimephales promelas		LC50	Pimephales promelas	230 mg/L (96h) [1]	LC50	Pimephales promelas	230 mg/l (96 h) [2]	EC50	Pimephales promelas	220 mg/l (96 h) [3]						
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	D.magna																			

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CAS No: 141-78-6 EC No: 205-500-4		[1] Canton, J.H., and D.M.M. Adema 1978. Reproducibility of Short-Term and Reproduction Toxicity Experiments with Daphnia magna and Comparison of the Sensitivity of Daphnia magna with Daphnia pulex and Daphnia cucullata in Short-Term Experiments. Hydrobiologia 59(2):135-140 (Used Reference 2018) [2] DIN 38412,Parte 11 [3] Canton, J.H., and D.M.M. Adema 1978. Reproducibility of Short-Term and Reproduction Toxicity Experiments with Daphnia magna and Comparison of the Sensitivity of Daphnia magna with Daphnia pulex and Daphnia cucullata in Short-Term Experiments. Hydrobiologia 59(2):135-140 (Used Reference 2018) [4] Aquat. Toxicol. 4, 73 - 82, Slooff, W. 1983.
	Aquatic plants	NOEC S.subspicatus >100 mg/L (72h) [1] [1] OECD 201
tetrahydrofuran CAS No: 109-99-9 EC No: 203-726-8	Fish	LC50 P.promelas 2160 mg/L (96h)
	Aquatic invertebrates	
	Aquatic plants	

12.2 Persistence and degradability.

No information is available regarding the biodegradability of the substances present.

No information is available on the degradability of the substances present.No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potential.

Information about the bioaccumulation of the substances present.

Name	Bioaccumulation			
	Log Pow	BCF	NOECs	Level
butanone,ethyl methyl ketone CAS No: 78-93-3 EC No: 201-159-0	0,29	3,2	-	Very low
ethyl acetate CAS No: 141-78-6 EC No: 205-500-4	0,73	30	-	Very low

12.4 Mobility in soil.

No information is available about the mobility in soil.

The product must not be allowed to go into sewers or waterways.

Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

12.6 Endocrine disrupting properties.

This product doesn't contain components with environmental endocrine disrupting properties.

12.7 Other adverse effects.

No information is available about other adverse effects for the environment.

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SECTION 13: DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

Waste classification according to the European Waste Catalogue:

16 WASTES NOT OTHERWISE SPECIFIED IN THE LIST

16 03 off-specification batches and unused products

16 03 05 organic wastes containing hazardous substances

Waste classified as hazardous.

SECTION 14: TRANSPORT INFORMATION.

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

Land: Transport by road: ADR, Transport by rail: RID.

Transport documentation: Consignment note and written instructions

Sea: Transport by ship: IMDG.

Transport documentation: Bill of lading

Air: Transport by plane: ICAO/IATA.

Transport document: Airway bill.

14.1 UN number or ID number.

UN No: UN1133

14.2 UN proper shipping name.

Description:

ADR: UN 1133, ADHESIVES, 3, GE III, (E)

IMDG: UN 1133, ADHESIVES, 3, GE III (-6°C)

ICAO/IATA: UN 1133, ADHESIVES, 3, GE III

14.3 Transport hazard class(es).

Class(es): 3

14.4 Packing group.

Packing group: III

14.5 Environmental hazards.

Marine pollutant: No

14.6 Special precautions for user.

F-E,S-DLabels: 3



Hazard number: Not applicable.

ADR LQ: 5 L

IMDG LQ: 5 L

Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR.

Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills):

Proceed in accordance with point 6.

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14.7 Maritime transport in bulk according to IMO instruments.

The product is not transported in bulk.

SECTION 15: REGULATORY INFORMATION.

15.1 Safety, health and environmental regulations/legislation specific for the mixture.

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Volatile organic compound (VOC)

VOC content (p/p): 50,8 %

VOC content: 462,82 g/l

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): N/A

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles:

Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
28. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as carcinogen category 1A or 1B (Table 3.1) or carcinogen category 1 or 2 (Table 3.2) and listed as follows: - Carcinogen category 1A (Table 3.1)/carcinogen category 1 (Table 3.2) listed in Appendix 1 - Carcinogen category 1B (Table 3.1)/carcinogen category 2 (Table 3.2) listed in Appendix 2	1. Shall not be placed on the market, or used, - as substances, - as constituents of other substances, or, - in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than: - either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or, - the relevant concentration specified in Directive 1999/45/EC where no specific concentration limit is set out in Part 3 of Annex VI to Regulation (EC) No 1272/2008. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows: 'Restricted to professional users'. 2. By way of derogation, paragraph 1 shall not apply to: (a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC; (b) cosmetic products as defined by Directive 76/768/EEC; (c) the following fuels and oil products: - motor fuels which are covered by Directive 98/70/EC, - mineral oil products intended for use as fuel in mobile or fixed combustion plants, - fuels sold in closed systems (e.g. liquid gas bottles); (d) artists' paints covered by Directive 1999/45/EC; (e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date.

Kind of pollutant for the water (Germany): WGK 1: Slightly hazardous for the water. (Autoclassified according to the AwSV Regulations)

15.2 Chemical safety assessment.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

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SECTION 16: OTHER INFORMATION.

Complete text of the H phrases that appear in section 3:

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.

Classification codes:

Acute Tox. 4 : Acute toxicity (Inhalation), Category 4
Acute Tox. 4 : Acute toxicity (Oral), Category 4
Carc. 2 : Carcinogen, Category 2
Eye Irrit. 2 : Eye irritation, Category 2
Flam. Liq. 2 : Flammable liquid, Category 2
STOT SE 3 : Specific target organ toxicity following a single exposure, Category 3

Changes regarding to the previous version:

- Changes in sections 1, 2, 3, 9, 11, 12, 14 and 16 of this Safety Data Sheet

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Information on the TSCA Inventory (Toxic Substances Control Act) USA:

CAS No	Name	State
78-93-3	butanone,ethyl methyl ketone	Registered16
141-78-6	ethyl acetate	Registered16
109-99-9	tetrahydrofuran	Registered16

Risk classification system NFPA 704:



Health hazard: 2 (Hazardous)

Flammability: 4 (Below 73°F)

Reactivity: 0 (Stable)

Abbreviations and acronyms used:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
AwSV: Facility Regulations for handling substances that are hazardous for the water.
BCF: Bioconcentration factor.
CEN: European Committee for Standardization.
DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.
DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

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EC50: Half maximal effective concentration.
PPE: Personal protection equipment.
IATA: International Air Transport Association.
ICAO: International Civil Aviation Organization.
IMDG: International Maritime Code for Dangerous Goods.
LC50: Lethal concentration, 50%.
LD50: Lethal dose, 50%.
Log Pow: Logarithm of the partition octanol-water.
NOEC: No observed effect concentration.
PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.
WGK: Water hazard classes.

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) 2020/878.

Regulation (EC) No 1907/2006.

Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemical substances and mixtures (REACH).

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.