

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Issuing Date 30-Mar-2021

Revision date 30-Mar-2021

Revision Number 1

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

1.1. Product identifier

Product Name Nutec UV Printhead Cleaning Solution

Contains Ketone Derivative, Butoxyethyl acetate, gamma-Butyrolactone

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

Recommended use Cleaning solution as a washing and cleaning preparation for use in digital ink delivery systems and digital print heads.

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

NUTEC DIGITAL INK (PTY) LTD. 1 CLIFFORD STREET OTTERY, 7800 SOUTH AFRICA

For further information, please contact

Emergency: New Zealand:0800 Poison (0800 764 766)

Supplier: Hitec-Ink

Unit 4 / 231 Annex Road

Middleton 8024

Ph 03 666 0100

During normal opening times: +27 21 763 6990

24 Hours: +27 83 326 0774

1.4. Emergency telephone number

Emergency Telephone

Emergency Telephone - \$45 - (EC)1272/2008

Europe

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Serious eye damage/eye irritation	Category 1 - (H318)
Specific target organ toxicity — single exposure	Category 3 - (H336)
Category 3 Narcotic effects	

2.2. Label elements

Contains Ketone Derivative, Butoxyethyl acetate, gamma-Butyrolactone



Signal word

Danger

Hazard statements

H332 - Harmful if inhaled

H318 - Causes serious eye damage

H336 - May cause drowsiness or dizziness

Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear 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

P310 - Immediately call a POISON CENTER or doctor

2.3. Other hazards

May be harmful if swallowed. May be harmful in contact with skin. Harmful to aquatic life.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Chemical name	Weight-%	REACH registration number	EC No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
gamma-Butyrolactone 96-48-0	30-40	01-211947183 9-21-XXXX	202-509-5	Acute Tox. 4 (H302) Eye Dam. 1 (H318) STOT SE 3 (H336)	-	-	-
Butoxyethyl acetate 112-07-2	30-40	01-211947511 2-47-XXXX	203-933-3	Acute Tox. 4 (H312) Acute Tox. 4 (H332)	-	-	-
Ketone Derivative	20-30	No data available	.?	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Flam. Liq. 3 (H226)	-	-	-

Full text of H- and EUH-phrases: see section 16Acute Toxicity Estimate

No information available

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
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Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
gamma-Butyrolactone 96-48-0	1540	5640	No data available	No data available	No data available
Butoxyethyl acetate 112-07-2	2400	1500	No data available	2.621	No data available
Ketone Derivative	1544	947	No data available	32.1112	No data available

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.
Ingestion	Clean mouth with water and drink afterwards plenty of water.

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

Symptoms	No information available.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	No information available.
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5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	See Section 12 for additional Ecological Information.
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6.3. Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections	See section 8 for more information. See section 13 for more information.
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SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Advice on safe handling	Ensure adequate ventilation.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed in a dry and well-ventilated place.
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7.3. Specific end use(s)

Risk Management Methods (RMM)	The information required is contained in the Safety Data Sheet.
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SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Butoxyethyl acetate 112-07-2	TWA: 20 ppm TWA: 133 mg/m ³ STEL: 50 ppm STEL: 333 mg/m ³ *	TWA: 20 ppm TWA: 133 mg/m ³ STEL 40 ppm STEL 270 mg/m ³ H*	TWA: 20 ppm TWA: 133 mg/m ³ STEL: 50 ppm STEL: 333 mg/m ³ *	STEL: 50 ppm STEL: 333 mg/m ³ TWA: 20 ppm TWA: 133 mg/m ³ K*	TWA: 20 ppm TWA: 133 mg/m ³ STEL: 50 ppm STEL: 333 mg/m ³ *
Ketone Derivative	TWA: 10 ppm TWA: 40.8 mg/m ³ STEL: 20 ppm STEL: 81.6 mg/m ³ *	TWA: 5 ppm TWA: 20 mg/m ³ STEL 20 ppm STEL 80 mg/m ³ H*	TWA: 10 ppm TWA: 40.8 mg/m ³ STEL: 20 ppm STEL: 81.6 mg/m ³ *	STEL: 20 ppm STEL: 81.6 mg/m ³ TWA: 10 ppm TWA: 40.8 mg/m ³ K*	TWA: 10 ppm TWA: 40.8 mg/m ³ STEL: 20 ppm STEL: 81.6 mg/m ³ *
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
gamma-Butyrolactone 96-48-0	-	-	-	-	TWA: 50 ppm TWA: 14 mg/m ³

					STEL: 250 ppm STEL: 70 mg/m ³ iho*
Butoxyethyl acetate 112-07-2	* STEL: 50 ppm STEL: 333 mg/m ³ TWA: 20 ppm TWA: 133 mg/m ³	TWA: 130 mg/m ³ Ceiling: 300 mg/m ³ *	TWA: 20 ppm TWA: 134 mg/m ³ H*	TWA: 20 ppm TWA: 133 mg/m ³ STEL: 50 ppm STEL: 333 mg/m ³ A*	TWA: 20 ppm TWA: 130 mg/m ³ STEL: 50 ppm STEL: 330 mg/m ³ iho*
Ketone Derivative	STEL: 20 ppm STEL: 81.6 mg/m ³ TWA: 10 ppm TWA: 40.8 mg/m ³	TWA: 40 mg/m ³ Ceiling: 80 mg/m ³ *	TWA: 10 ppm TWA: 41 mg/m ³ H*	TWA: 10 ppm TWA: 40.8 mg/m ³ STEL: 20 ppm STEL: 81.6 mg/m ³ A*	TWA: 10 ppm TWA: 41 mg/m ³ STEL: 20 ppm STEL: 82 mg/m ³ iho*
Chemical name	France	Germany	Germany MAK	Greece	Hungary
gamma-Butyrolactone 96-48-0	-	-	*	-	-
Butoxyethyl acetate 112-07-2	TWA: 10 ppm TWA: 66.5 mg/m ³ STEL: 50 ppm STEL: 333 mg/m ³ *	TWA: 10 ppm TWA: 65 mg/m ³ H*	TWA: 10 ppm TWA: 66 mg/m ³ Peak: 20 ppm Peak: 132 mg/m ³ *	TWA: 20 ppm TWA: 135 mg/m ³ STEL: 40 ppm STEL: 270 mg/m ³	TWA: 133 mg/m ³ STEL: 333 mg/m ³ *
Ketone Derivative	TWA: 10 ppm TWA: 40.8 mg/m ³ STEL: 20 ppm STEL: 81.6 mg/m ³	TWA: 20 ppm TWA: 80 mg/m ³ H*	*	TWA: 50 ppm TWA: 200 mg/m ³ STEL: 100 ppm STEL: 400 mg/m ³ skin - potential for cutaneous absorption	TWA: 40.8 mg/m ³ STEL: 81.6 mg/m ³ *
Chemical name	Ireland	Italy	Italy REL	Latvia	Lithuania
Butoxyethyl acetate 112-07-2	TWA: 20 ppm TWA: 133 mg/m ³ STEL: 50 ppm STEL: 333 mg/m ³ Sk*	TWA: 20 ppm TWA: 133 mg/m ³ STEL: 50 ppm STEL: 333 mg/m ³ pelle*	TWA: 20 ppm TWA: 131 mg/m ³	TWA: 20 ppm TWA: 133 mg/m ³ STEL: 50 ppm STEL: 333 mg/m ³ *	* TWA: 10 ppm TWA: 70 mg/m ³ STEL: 20 ppm STEL: 140 mg/m ³
Ketone Derivative	TWA: 10 ppm TWA: 40.8 mg/m ³ STEL: 20 ppm STEL: 81.6 mg/m ³ Sk*	TWA: 10 ppm TWA: 40.8 mg/m ³ STEL: 20 ppm STEL: 81.6 mg/m ³ pelle*	TWA: 20 ppm TWA: 80 mg/m ³ STEL: 50 ppm STEL: 201 mg/m ³ *	TWA: 10 ppm TWA: 40.8 mg/m ³ STEL: 20 ppm STEL: 81.6 mg/m ³ *	* TWA: 10 ppm TWA: 40.8 mg/m ³ STEL: 20 ppm STEL: 81.6 mg/m ³
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Butoxyethyl acetate 112-07-2	* STEL: 50 ppm STEL: 333 mg/m ³ TWA: 20 ppm TWA: 133 mg/m ³	* STEL: 50 ppm STEL: 333 mg/m ³ TWA: 20 ppm TWA: 133 mg/m ³	TWA: 135 mg/m ³ STEL: 333 mg/m ³ H*	TWA: 10 ppm TWA: 65 mg/m ³ STEL: 20 ppm STEL: 97.5 mg/m ³ H*	STEL: 300 mg/m ³ TWA: 100 mg/m ³ *
Ketone Derivative	* STEL: 20 ppm STEL: 81.6 mg/m ³ TWA: 10 ppm TWA: 40.8 mg/m ³	* STEL: 20 ppm STEL: 81.6 mg/m ³ TWA: 10 ppm TWA: 40.8 mg/m ³	STEL: 50 mg/m ³ H*	TWA: 10 ppm TWA: 40 mg/m ³ STEL: 20 ppm STEL: 80 mg/m ³ H*	STEL: 80 mg/m ³ TWA: 40 mg/m ³ *
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Butoxyethyl acetate 112-07-2	TWA: 20 ppm TWA: 133 mg/m ³ STEL: 50 ppm STEL: 333 mg/m ³ P*	TWA: 20 ppm TWA: 133 mg/m ³ STEL: 50 ppm STEL: 333 mg/m ³ *	TWA: 20 ppm TWA: 133 mg/m ³ * Ceiling: 333 mg/m ³	TWA: 20 ppm TWA: 133 mg/m ³ STEL: 50 ppm STEL: 333 mg/m ³ *	TWA: 20 ppm TWA: 133 mg/m ³ STEL: 50 ppm STEL: 333 mg/m ³ via dérmica*
Ketone Derivative	TWA: 10 ppm TWA: 40.8 mg/m ³ STEL: 20 ppm STEL: 81.6 mg/m ³ P*	TWA: 10 ppm TWA: 40.8 mg/m ³ STEL: 20 ppm STEL: 81.6 mg/m ³ *	TWA: 10 ppm TWA: 41 mg/m ³ * Ceiling: 82 mg/m ³	TWA: 10 ppm TWA: 40.8 mg/m ³ STEL: 20 ppm STEL: 81.6 mg/m ³ *	TWA: 10 ppm TWA: 41 mg/m ³ STEL: 20 ppm STEL: 82 mg/m ³ via dérmica*
Chemical name	Sweden	Switzerland	United Kingdom		
Butoxyethyl acetate	NGV: 10 ppm	TWA: 10 ppm	TWA: 20 ppm		

112-07-2	NGV: 70 mg/m ³ Bindande KGV: 50 ppm Bindande KGV: 333 mg/m ³ *	TWA: 66 mg/m ³ STEL: 20 ppm STEL: 132 mg/m ³ H*	TWA: 133 mg/m ³ STEL: 50 ppm STEL: 332 mg/m ³ Sk*
Ketone Derivative	NGV: 10 ppm NGV: 41 mg/m ³ Bindande KGV: 20 ppm Bindande KGV: 81 mg/m ³ *	TWA: 25 ppm TWA: 100 mg/m ³ STEL: 50 ppm STEL: 200 mg/m ³ H*	TWA: 10 ppm TWA: 41 mg/m ³ STEL: 20 ppm STEL: 82 mg/m ³ Sk*

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Butoxyethyl acetate 112-07-2	-	-	-	-	200 mg/g Creatinine (urine - Butoxyacetic acid end of shift at end of workweek) 0.17 mmol/mmol Creatinine (urine - Butoxyacetic acid end of shift at end of workweek)
Ketone Derivative	-	-	-	-	0.049 µmol/mmol Creatinine (urine - 1,2-Cyclohexanediol end of shift at end of workweek) 50 mg/g Creatinine (urine - 1,2-Cyclohexanediol end of shift at end of workweek)
Chemical name	Denmark	Finland	France	Germany	Germany MAK
Butoxyethyl acetate 112-07-2	-	-	-	150 mg/g Creatinine (urine - Butoxyacetic acid (after hydrolysis) for long-term exposures: at the end of the shift after several shifts) 150 mg/g Creatinine (urine - Butoxyacetic acid (after hydrolysis) end of shift) 150 mg/g Creatinine - BAT (for long-term exposures: at the end of the shift after several shifts) urine 150 mg/g Creatinine - BAT (end of exposure or end of shift) urine	150 mg/g Creatinine (urine - Butoxyacetic acid (after hydrolysis) for long-term exposures: at the end of the shift after several shifts) 150 mg/g Creatinine (urine - Butoxyacetic acid (after hydrolysis) end of shift)
Ketone Derivative	-	-	-	50 mg/L - (long-term exposure: at the end of the shift after several shifts) - urine	-

				100 mg/L - (long-term exposure: at the end of the shift after several shifts) - urine 250 mg/L - (long-term exposure: at the end of the shift after several shifts) - urine 6 mg/L - (end of exposure or end of shift) - urine 12 mg/L - (end of exposure or end of shift) - urine 30 mg/L - (end of exposure or end of shift) - urine	
Chemical name	Hungary	Ireland	Italy	Italy REL	
Ketone Derivative	-	8 mg/L (urine - Cyclohexanol end of shift) 80 mg/L (urine - 1,2-Cyclohexanediol end of shift)	-	80 mg/L - urine (1,2-Cyclohexanediol (with hydrolysis)) - end of shift at end of workweek 8 mg/L - urine (Cyclohexanol (with hydrolysis)) - end of shift	
Chemical name	Slovenia	Spain	Switzerland	United Kingdom	
Butoxyethyl acetate 112-07-2	150 mg/g Creatinine - urine (Butoxyacetic acid (after hydrolysis)) - at the end of the work shift; for long-term exposure: at the end of the work shift after several consecutive workdays	-	150 mg/g creatinine (urine - 2-Butoxyacetic acid (after hydrolysis) end of shift, and after several shifts (for long-term exposures))	-	
Ketone Derivative	-	80 mg/L (urine - 1,2-Cyclohexanodiol (with hydrolysis) end of workweek) 8 mg/L (urine - Cyclohexanol (with hydrolysis) end of shift)	100 mg/L (urine - total 1,2-Cyclohexanediol end of shift, and after several shifts (for long-term exposures)) 12 mg/L (urine - total-Cyclohexanol end of shift, and after several shifts (for long-term exposures))	2 mmol/mol creatinine - urine (Cyclohexanol) - post shift	

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Personal protective equipment

Eye/face protection No special protective equipment required.

Skin and body protection No special protective equipment required.

Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid	
Appearance	No information available	
Colour	clear	
Odour	No information available.	
Odour threshold	No information available	
Property	Values	Remarks • Method
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	162 °C / 324 °F	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	75 °C / 167 °F	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	No data available	None known
pH (as aqueous solution)	No data available	No information available
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Water solubility	No data available Insoluble in water	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapour pressure	No data available	None known
Relative density	No data available	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapour density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

9.2.1. Information with regards to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Numerical measures of toxicity

No information available

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 2,904.00 mg/kg

ATEmix (dermal) 3,798.00 mg/kg

ATEmix (inhalation-dust/mist) 3.00 mg/l

ATEmix (inhalation-vapour) 25.28 mg/l

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

1 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

21 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

31 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).

1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
gamma-Butyrolactone	= 1540 mg/kg (Rat)	> 5640 mg/kg (Rabbit)	> 5100 mg/m ³ (Rat) 4 h

Butoxyethyl acetate	= 2400mg/kg (Rat)	= 1500 mg/kg (Rabbit)	> 400 ppm (Rat) 4 h
Ketone Derivative	= 1544 mg/kg (Rat)	= 3160 mg/kg (Rabbit)	= 8000 ppm (Rat) 4 h

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

Skin corrosion/irritation No information available.

Respiratory or skin sensitisation No information available.

Germ cell mutagenicity No information available.
Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

11.2. Information on other hazards**11.2.1. Endocrine disrupting properties**

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information**12.1. Toxicity**

Ecotoxicity The environmental impact of this product has not been fully investigated.

Unknown aquatic toxicity Contains 0.09900001 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
gamma-Butyrolactone	EC50: =360mg/L (72h, <i>Desmodesmus subspicatus</i>) EC50: =79mg/L (96h, <i>Desmodesmus subspicatus</i>)	LC50: =56mg/L (96h, <i>Lepomis macrochirus</i>)	-	EC50: >500mg/L (48h, <i>Daphnia magna</i> Straus)
Butoxyethyl acetate	EC50: >500mg/L (72h, <i>Desmodesmus subspicatus</i>)	LC50: 20 - 40mg/L (96h, <i>Oncorhynchus mykiss</i>)	-	EC50: =37mg/L (48h, <i>Daphnia magna</i>)
Ketone Derivative	-	LC50: 481 - 578mg/L (96h, <i>Pimephales promelas</i>) LC50: =8.9mg/L (96h, <i>Pimephales promelas</i>)	EC50 = 18.5 mg/L 5 min EC50 = 21.3 mg/L 10 min EC50 = 25 mg/L 5 min	-

12.2. Persistence and degradability**12.3. Bioaccumulative potential**

Bioaccumulation No information available.

Chemical name	Partition coefficient
gamma-Butyrolactone	-0.566
Butoxyethyl acetate	1.51
Ketone Derivative	0.86

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

Chemical name	PBT and vPvB assessment
gamma-Butyrolactone	The substance is not PBT / vPvB PBT assessment does not apply
Butoxyethyl acetate	The substance is not PBT / vPvB
Ketone Derivative	The substance is not PBT / vPvB PBT assessment does not apply

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

Other information Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

IATA

14.1 UN number or ID number Not regulated

14.2

14.3 Transport hazard class(es) Not regulated

14.4 Packing group Not regulated

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions None

IMDG

14.1 UN number or ID number Not regulated

14.2

14.3 Transport hazard class(es) Not regulated

14.4 Packing group Not regulated

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions	None No information available
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID

14.1 UN number or ID number	Not regulated
14.2	
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

ADR

14.1 UN number or ID number	Not regulated
14.2	
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Chemical name	French RG number	Title
gamma-Butyrolactone 96-48-0	RG 84	-
Butoxyethyl acetate 112-07-2	RG 84	-
Ketone Derivative	RG 84	-

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status

KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H332 - Harmful if inhaled
H315 - Causes skin irritation
H318 - Causes serious eye damage
H226 - Flammable liquid and vapour
H336 - May cause drowsiness or dizziness
H412 - Harmful to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AELG(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

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This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

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End of Safety Data Sheet

Europe

Specific target organ toxicity — single exposure	Category 3
Category 3 Target organ effects: Narcotic effects.	

EU SDS version information - EGHS

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GHS Revision 7