



Safety Data Sheet

According to UN GHS

Date of Issue: 30/06/2022 Revision Date 29/09/2022 | Version 8.0

Product name

# AEROLAK FLUORENSCENT SPRAY PAINT (912001-04)

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## SECTION 1: IDENTIFICATION

**GHS product identifier** : Aerolak Fluorescent Spray Paint (912001-04)

**Other means of identification** : A quick drying aerosol spray paint with a matt fluorescent finish for interior use.

### Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** : A specially formulated fluorescent finish for artwork and display purposes.

**Restrictions of use** : Do not use in areas / substrates other than specified for in identified uses / TDS.

**Supplier's details** : Kansai Plascon (Pty) Ltd  
P.O. Box 4010  
Luipaardsvlei  
1743

**Emergency phone** : +2711 951 4500 (within hours of operation)  
**Cell phone** : +2783 991 5782 (outside hours of operation)  
**Facsimile** : +2711 955 2841  
**National Contact Person** : Misheck Mundondo

**SECTION 2: HAZARDOUS IDENTIFICATION****Classification of the substance or mixture**

: AEROSOL – Category 2  
FLAMMABLE LIQUID - Category 2  
SERIOUS EYE DAMAGE/ IRRITATION - Category 1  
SKIN CORROSION/ IRRITATION - Category 2  
SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE - Category 3  
SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE - Category 2  
ACUTE TOXICITY (DERMAL) - Category 4  
ACUTE TOXICITY (ORAL) - Category 4  
ACUTE TOXICITY (INHALATION) - Category 4  
ASPIRATION HAZARD - Category 1  
REPRODUCTIVE TOXICITY - Category 1B  
CARCINOGENICITY - Category 2

**Label elements according to**

: UN GHS

**Hazard pictograms****Signal word**

: Danger

**Hazard statements**

: H223 – Flammable aerosol.  
H229 – Pressurized container: may burst if heated.  
H225 - Highly flammable liquid and vapour.  
H302 - Harmful if swallowed.  
H304 - May be fatal if swallowed and enters airways.  
H312 - Harmful if in contact with skin.  
H315 - Causes skin irritation.  
H318 - Causes serious eye damage.  
H332 - Harmful if inhaled.  
H335 – May cause respiratory irritation.  
H336 - May cause drowsiness or dizziness.  
H351 - Suspected of causing cancer.  
H361d - Suspected of damaging fertility or the unborn child.  
H373 - May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements****General**

- : P101 - If medical advice is needed, have product container or label at hand.
- P102 - Keep out of reach of children.
- P103 - Read carefully and follow all instructions.

**Prevention**

- : P202 - Do not handle until all safety precautions have been read and understood.
- P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233 – Keep container tightly closed.
- P240 – Ground / bond container and receiving equipment.
- P242 - Use only non-sparking tools.
- P243 - Take precautionary measures against static discharge.
- P251 - Do not pierce or burn, even after use.
- P260 - Do not breathe vapor.
- P262 - Do not get in eyes, on skin, or on clothing.
- P263 – Wash contaminated clothing before use.
- P264 - Wash hands thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P271 - Use only outdoors or in a well-ventilated area.
- P272 - Contaminated work clothing should not be allowed out of the workplace.
- P280 - Wear protective gloves, protective clothing, eye protection or face protection.
- P284 - In case of inadequate ventilation wear respiratory protection.

**Response**

- : P362 - Take off contaminated clothing and wash before reuse.
- P301+316 - IF SWALLOWED: Get emergency medical help immediately.
- P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+361+353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water (or shower)
- P333+317 - If skin irritation or a rash occurs: Get medical help.
- P304+340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P337+317 - If eye irritation persists get medical help.  
 P370+378 - In case of fire: Use fire extinguisher.

**Storage** : P403 + P235 - Store in a well-ventilated place. Keep cool.  
 P404 - Store in a closed container.  
 P410 - Protect from sunlight.

**Disposal** : P501 - Dispose of contents/containers in accordance with local regulation

**Other hazards which do not result in classification** : None identified.

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

**Substance/mixture** : Mixture

**Other means of identification** : A highly quality quick drying aerosol spray paint with a high gloss finish.

**CAS number/other identifiers**

**CAS number** : Not applicable.

Ingredient name	CAS number	%	SANS 10234 Classification
Dimethyl ether	115-10-6	30.0-50.0	Flam. Gas 1, H220
Toluene	108-88-3	05.0-10.0	Flam. Liq. 2, H225 Asp Tox.1, H304 STOT RE 2, H373 STOT SE 3, H336 Skin Irrit. 2, H315 Rep. Tox. 2, H361d
Propan-1-ol	71-23-8	5.0-10.0	Flam. Liq. 2, H225 Eye Irrit. 1, H318 STOT SE 3, H336
Acetone	67-64-1	5.0-10.0	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Xylene	1330-20-7	5.0-10.0	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332

Ingredient name	CAS number	%	SANS 10234 Classification
2-butoxyethanol	111-76-2	2.0-5.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Tetrachloroethylene	127-18-4	2.0-5.0	Carc. 2, H351 Aquatic Chronic 2, H411
Butan-1-ol	71-36-3	2.0-5.0	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335, H336
Propan-2-ol	67-63-0	2.0-5.0	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
4-methylpentan-2-one	108-10-1	2.0-5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335
Bis(2-ethylhexyl) phthalate	117-81-7	2.0-5.0	Repr. 1B, H360FD
Phthalic anhydride	85-44-9	< 2.0	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335
Solvent naphtha (petroleum), light aliph.	64742-89-8	< 2.0	Flam. Liq. 2, H225 Asp. Tox. 1, H304

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

#### SECTION 4: FIRST AID MEASURES

##### Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation persists.



- Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact : Remove contaminated clothing and shoes. Wash contaminated skin with soap or a recognised skin cleaner and plenty of water. Avoid the use of solvents. Get medical attention if symptoms persist. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe.

**Most important symptoms/ effects, acute and delayed**

Potential acute health effects

- Eye contact : Causes serious eye irritation.
- Inhalation : Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.
- Skin contact : Harmful in contact with skin. Causes skin irritation.
- Ingestion : Maybe harmful if swallowed. May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

- Eye contact : Adverse symptoms may include pain or irritation, watering or redness.
- Inhalation : Adverse symptoms may include nausea or vomiting, \ headache, respiratory irritation, drowsiness/fatigue or dizziness/vertigo, reduced fetal weight, increase in fetal deaths or skeletal malformations.
- Skin contact : Adverse symptoms may include irritation or redness, reduced fetal weight, increase in fetal deaths or skeletal malformations.
- Ingestion : Adverse symptoms may include nausea or vomiting, headache, respiratory irritation, drowsiness/fatigue or dizziness/vertigo, reduced fetal weight, increase in fetal deaths or skeletal malformations.



**Indication of immediate medical attention and special treatment needed, if necessary**

- Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments : No specific treatment.
- Protection of first-aiders : No action shall be taken involving any personal risk or without Suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

**SECTION 5: FIRE-FIGHTING MEASURES**

- Extinguishing media
- Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire such as dry powder, CO2, water spray (fog) or foam. Use fog to cool and control.
- Unsuitable extinguishing media : Do not use water jet.
- Specific hazards arising from the chemical : Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products : Decomposition products may include the following materials  
carbon dioxide  
carbon monoxide  
metal oxide/oxides
- Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.



Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.





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## SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges.

Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Do not reuse container.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### Occupational exposure limits

Ingredient name	Exposure limits
Acetone	<b>OHSAS:</b> TWA: OEL:RL 750 ppm TWA: OEL:RL 1780 mg/m <sup>3</sup> STEL: OEL:RL 1500 ppm STEL: OEL:RL 3560 mg/m <sup>3</sup>
Xylene	<b>OHSAS:</b> TWA: OEL:RL 100 ppm TWA: OEL:RL 435 mg/m <sup>3</sup> STEL: OEL:RL 150 ppm STEL: OEL:RL 650 mg/m <sup>3</sup>
2-butoxyethanol;	<b>OHSAS:</b> TWA: OEL:RL 25 ppm TWA: OEL:RL 120 mg/m <sup>3</sup>
Tetrachloroethylene	<b>OHSAS:</b> TWA: OEL:RL 50 ppm TWA: OEL:RL 335 mg/m <sup>3</sup> STEL: OEL:RL 150 ppm STEL: OEL:RL 1000 mg/m <sup>3</sup>
Butan-1-ol	<b>OHSAS:</b> STEL: OEL:RL 50 ppm STEL: OEL:RL 150 mg/m <sup>3</sup>
Propan-2-ol;	<b>OHSAS:</b> TWA: OEL:RL 400 ppm TWA: OEL:RL 980 mg/m <sup>3</sup> STEL: OEL:RL 500 ppm STEL: OEL:RL 1225 mg/m <sup>3</sup>
4-methylpentan-2-one	<b>OHSAS:</b> TWA: OEL:RL 50 ppm TWA: OEL:RL 205 mg/m <sup>3</sup> STEL: OEL:RL 75 ppm STEL: OEL:RL 300 mg/m <sup>3</sup>
Bis(2-ethylhexyl) phthalate;	<b>ACGIH TLV (United States, 2/2010).</b> TWA: 5 mg/m <sup>3</sup> 8 hour(s).
Phthalic anhydride	<b>ACGIH TLV (United States, 2/2010).</b> TWA: 1 ppm 8 hour(s). TWA: 6.1 mg/m <sup>3</sup> 8 hour(s).



Ingredient name	Exposure limits
Acetone	<b>OHSAS:</b> TWA: OEL:RL 750 ppm TWA: OEL:RL 1780 mg/m <sup>3</sup> STEL: OEL:RL 1500 ppm STEL: OEL:RL 3560 mg/m <sup>3</sup>
Xylene	<b>OHSAS:</b> TWA: OEL:RL 100 ppm TWA: OEL:RL 435 mg/m <sup>3</sup> STEL: OEL:RL 150 ppm STEL: OEL:RL 650 mg/m <sup>3</sup>

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Appropriate engineering controls

: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Individual protection measures**

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.



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- Eye/face protection : Avoid direct contact. Never touch eyes with dirty hands or gloves. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
- Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary e.g. in case of insufficient ventilation. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : Aerosol
- Colour : Fluorescent
- Odour (Threshold) : No data available
- Melting point : Not applicable
- Boiling point : No data available
- Flammability (gas, liquid, solid) : No data available



Lower and upper explosive (flammable) limits	: No data available
Flash point	: -18°C
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
pH	: Not applicable
Viscosity (Ford 4 cup)	: 10-13 sec
Solubility	: Soluble in organic solvents
Partition coefficient, n-octanol/water	: No data available
Evaporation rate	: No data available
Vapour pressure	: No data available
Relative density	: 0.75 g/l (typical)
Vapour density	: No data available
Particle characteristics	: No data available

**SECTION 10: STABILITY AND REACTIVITY**

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions:	: Ignition of vapours may lead to explosion Formation of explosive gas/air mixtures.
Conditions to avoid	: Keep away from heat. Keep away from flames and sparks
Incompatible materials	: Strong acids and oxidizing agents.



Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: TOXICOLOGICAL INFORMATION**

Acute Toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Toluene	LC50 Inhalation	Rat	49 g/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Propan-1	LCLo Inhalation Vapor LD50	Rat	4000 ppm	4 hours
	Dermal	Rabbit	5040 mg/kg	-
	LD50 Oral	Rat	1870 mg/kg	-
	LDLo Oral	Human –	5700 mg/kg	-
	LDLo Subcutaneous	Female Rabbit	3 g/kg	-
Acetone	LD50 Oral	Rat	5800 mg/kg	-
	LC50 Inhalation Gas	Rat	5000 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
2-butoxyethanol	LC50 Inhalation Gas	Rat	450 ppm	-
	LD50 Dermal	Rabbit	220 mg/kg	-
	LD50 Oral	Rat	250 mg/kg	-
Tetrachloroethylene	LD50 Oral	Rat	2629 mg/kg	-
	LC50 Inhalation Vapor	Rat	24000 mg/kg	4 hours
	LD50 Dermal	Rabbit	3400 g/m <sup>3</sup>	-
	LD50 Oral	Rat	790 mg/kg	-
Propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	- -
	LD50 Oral	Rat	5000 mg/kg	-
4-methylpentan-2-one	LD50 Oral	Rat	2080 mg/kg	-
	LD50 Dermal	Rabbit	25 g/kg	-
	LD50 Oral	Rat	30 g/kg	-
Phthalic anhydride	LD50 Oral	Rat	1530 mg/kg	-

## Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Toluene	Eyes - Mild irritant Eyes - Mild irritant Skin - Mild irritant Skin - Mild irritant Skin - Moderate irritant Skin - Moderate irritant	Rabbit Rabbit Pig Rabbit Rabbit Rabbit	- - - - - -	0.5 min, 100 mg 870 µg 24 hrs, 250µl 435 mg 24 hrs 20 mg 500 mg	- - - - - -
Propan-1-ol	Eyes - Irritation Skin - Irritation Skin - Irritation Skin - Irritation	Rabbit Human Human Rabbit	- - - -	24 hrs 20 mg 47 hrs 100 % 24 hrs 100 % 500 mg	Moderate irritant Mild irritant Mild irritant Mild irritant
Acetone	Eyes - Irritation Eyes - Irritation Eyes - Irritation Eyes - Irritation Skin - Irritation Skin - Irritation	Human Rabbit Rabbit Rabbit Rabbit Rabbit	- - - - - -	186300 ppm 10 µl 24 hrs 20 mg 20 mg 24 hrs 500 mg 395 mg	Mild irritant Mild irritant Moderate irritant Severe irritant Mild irritant Mild irritant
Xylene	Eyes - Irritation Skin - Irritation	Rabbit Rabbit	- -	87 mg 100 %	Mild irritant Moderate irritant
2-butoxyethanol	Eyes - Irritation Eyes - Irritation Skin - Irritation	Rabbit Rabbit Rabbit	- - -	24 hrs 100 mg 100 mg 500 mg	Moderate irritant Severe irritant Mild irritant
Tetrachloroethylene	Eyes - Irritation Eyes - Irritation Skin - Irritation Skin - Irritation	Rabbit Rabbit Rabbit Rabbit	- - - -	24 hrs 500 mg 162 mg 24 hrs 500 mg 24 hrs 800 mg	Mild irritant Mild irritant Mild irritant Severe irritant
Butan-1-ol	Eyes - Irritation Eyes - Irritation Skin - Irritation	Rabbit Rabbit Rabbit	- - -	24 hrs 2 mg 0.005 mg 24 hrs 20 mg	Severe irritant Severe irritant Moderate irritant
Propan-2-ol	Eyes - Irritation Eyes - Irritation Skin - Irritation	Rabbit Rabbit Rabbit	- - -	24 hrs 100 mg 10 mg 500 mg	Moderate irritant Moderate irritant Mild irritant
4-methylpentan-2-one	Eyes - Irritation Eyes - Irritation Skin - Irritation	Rabbit Rabbit Rabbit	- - -	24 hrs 100 mg 40 mg 24 hrs 500 mg	Moderate irritant Severe irritant Severe irritant



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Product/ingredient name	Result	Species	Score	Exposure	Observation
					Mild irritant
Bis(2-ethylhexyl) phthalate	Eyes - Irritation Eyes - Irritation Skin - Irritation	Rabbit Rabbit Rabbit	- - -	24 hrs 500 mg 500 mg 24 hrs 500 mg	Mild irritant Mild irritant Mild irritant
Phthalic anhydride	Eyes - Irritation	Rabbit	-	24 hrs 50 mg	Moderate irritant

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target Organs
Toluene	Category 3	Not determined	May cause drowsiness
Propan-1	Category 3	Not determined	Narcotic effects
Acetone	Category 3	Not determined	Narcotic effects
Butan-1-ol	Category 3	Not determined	Narcotic effects & Respiratory tract
Propan-2-ol	Category 3	Not determined	Respiratory tract
Phthalic Anhydride	Category 3	Not determined	Respiratory tract
Propan-1	Category 3	Not determined	Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target Organs
Toluene	Category 2	Not determined	Not determined

#### Aspiration hazard

Name	Result
Toluene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

: Inhalation, skin and eye contact.

Potential acute health effects

Eye contact

: Causes serious eye damage.

Inhalation

: Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.

Skin contact

: Harmful in contact with skin. Causes skin irritation.

Ingestion

: Harmful if swallowed. May be fatal if swallowed and enters airways.





Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact : Adverse symptoms may include pain or irritation, watering or redness.
- Inhalation : Adverse symptoms may include nausea or vomiting, headache, reduced fetal weight, increase in fetal deaths or skeletal malformations.
- Skin contact : Adverse symptoms may include irritation or redness, reduced fetal weight increase in fetal deaths or skeletal malformations.
- Ingestion : Adverse symptoms may include irritation or redness, reduced fetal weight increase in fetal deaths or skeletal malformations.
- Potential Chronic health effects
- General : No known significant effects or critical hazards.
- Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity : No known significant effects or critical hazards.
- Teratogenicity : Suspected of damaging the unborn child.
- Developmental effects : No known significant effects or critical hazards.
- Fertility effects : Suspected of damaging fertility.

Acute toxicity estimates

No data available.

**SECTION 12: ECOLOGICAL INFORMATION**

Toxicity

Product/Ingredient name	Result	Species	Exposure
Toluene	Acute EC50 12500 ug/l Acute EC50 11600 ug/l Acute EC50 6000 ug/l Acute LC50 5500 ug/l Chronic NOEC 1000 ug/l	Algae – P.Subcapitata Crustaceans – G.pseudolimnaeus Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling) Fish - Oncorhynchus kisutch	72 hours 48 hours 48 hours 96 hours 21 days
Propan-1-ol	Acute EC50 3200000 - 5600000 µg/l Acute EC50 4480000 µg/l Acute LC50 1000000 µg/l Acute LC50 2950000 µg/l Acute LC50 3000000 to 4000000 µg/l	Algae - Selenastrum sp. Algae - Selenastrum sp. Fish - Crustaceans Aquatic - Daphnia magna Fish - Alburnus alburnus	72 hours 96 hours 48 hours 48 hours 96 hours

Product/Ingredient name	Result	Species	Exposure
Acetone	Acute EC50 5600000 to 10000000 µg/l Acute EC50 20.565 mg/l Acute LC50 6000000 µg/l Acute LC50 10000 µg/l Acute LC50 >100000 µg/l Chronic NOEC 0.1 ml/l	Algae - Selenastrum sp. Algae - Ulva pertusa Fish - Crustaceans Aquatic - Daphnia magna Fish - Pimephales promelas Aquatic - Daphnia magna	72 hours 96 hours 48 hours 48 hours 96 hours 21 days
Xylene	Acute LC50 8500 µg/l Acute LC50 3300-4093 µg/l	Fish - Crustaceans Fish - Oncorhynchus mykiss	48 hours 96 hours
2-butoxyethanol	Acute EC50 >1000 mg/l Acute LC50 800000 µg/l Acute LC50 1250000 µg/l	Aquatic - Daphnia magna Fish - Crustaceans Fish - Menidia beryllina	48 hours 48 hours 96 hours
Tetrachloroethylene	Acute EC50 3.64 µg/l Acute EC50 509000 µg/l Acute EC50 7500 µg/l Acute LC50 3.5 µg/l Acute LC50 4000 µg/l Chronic NOEC >0.4 mg/l Chronic NOEC 500 µg/l	Algae - Chlamydomonas Algae - Skeletonema Aquatic - Daphnia magna Fish - Crustaceans Fish - Jordanella floridae Aquatic - Daphnia magna Fish - Pimephales promelas	72 hours 96 hours 48 hours 48 hours 96 hours 21 days 32 days
butan-1-ol	Acute EC50 1983000 - 2072000 µg/l Acute LC50 100 to 500 mg/l	Aquatic - Daphnia magna Fish - Lepomis macrochirus	48 hours 96 hours
propan-2-ol	Acute LC50 1400000 to 1950000 µg/l Acute LC50 >1400000 µg/l	Fish - Crustaceans Fish - Gambusia affinis	48 hours 96 hours
4-methylpentan-2-one	Acute LC50 505000 µg/l Chronic NOEC 7800 to 39000 µg/l Chronic NOEC 57000 to 105000 µg/l	Fish - Pimephales promelas Aquatic - Daphnia magna Fish - Pimephales promelas	96 hours 21 days 32 days
Bis(2-ethylhexyl) phthalate	Acute EC50 >100 µg/l Acute EC50 133 µg/l Acute LC50 >160 µg/l Chronic NOEC 109 µg/l Chronic NOEC 77 µg/l	Algae - Pseudokirchneriella Aquatic - Daphnia magna Fish - Pimephales promelas Fish - Crustaceans Aquatic - Daphnia magna	96 hours 48 hours 96 hours 21 days
Phthalic anhydride	Acute EC50 147 µg/l	Algae - Pseudokirchneriella	96 hours



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#### Persistence and degradability

Product/Ingredient name	Aquatic half-life	Photolysis	Biodegradability
Toluene	Fresh water 4 to 56 days	1-2 day(s)	Readily
Propan-1-ol	Fresh water 3 to 31 days	2.9 day(s)	Readily
Acetone	Fresh water 1 to 7 days	11.6 to 116 day(s)	Readily
Xylene	Fresh water <28 days	1 to 2 day(s)	-
Tetrachloroethylene	Fresh water 0.1 to 14 days	> 100 day(s)	inherent
Butan-1-ol;	Fresh water 2 to 29 days	2 day(s)	Readily
Propan-2-ol	Fresh water 3 to 29 days	3.2 day(s)	Readily
4-methylpentan-2-one	Fresh water <1.5 days	<1 day(s)	Not Readily

#### Bioaccumulative potential

Product/Ingredient name	LogPow	BCF	Potential
Toluene	2.69	13 - 90	Low
Propan-1-ol	0.25	3	low
Acetone	-0.24	0.69	low
Xylene	3.12	20	low
2-butoxyethanol;	0.83	-	low
Tetrachloroethylene	2.9	77	low
Butan-1-ol;	0.9	3	low
Propan-2-ol	0.05	3	low
4-methylpentan-2-one	1.38	6	low
Bis(2-ethylhexyl) phthalate	5.03	-	high
Phthalic anhydride	1.6	-	low

#### Mobility in soil

Soil/ water partition coefficient (KOC)

: No data available.

#### Mobility

PBT/vPvB data

: No data available.  
: P: No data available.  
B: No data available.  
T: No data available.

#### Other adverse effects

: No known significant effects or critical hazards.






**SECTION 13: DISPOSAL CONSIDERATIONS**

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: TRANSPORT INFORMATION**

	Transportation - road - SANS 10228:2012	Transportation- Maritime - IMO/ IMDG	Transportation- Air - IATA
UN number	1950	1950	1950
UN proper shipping name	Aerosol	Aerosol (Tetrachloroethylene)	Aerosol
Transport hazard class(es)	2.1 	2.1 	2.1 
Packing group	II	II	II
Environmental Hazards	Environmentally hazardous	Marine pollutant	Environmentally hazardous
Additional information	No data available	<b>Emergency schedules (EmS)</b> F-D, S-U	<b>Passenger and Cargo Aircraft Ltd QTY:</b> Quantity limitation: 30kg



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			Packaging instructions: Y203 <b>Passenger and Cargo Aircraft:</b> Quantity limitation: 75kg Packaging instructions: 203 <b>Cargo Aircraft Only:</b> Quantity limitation: 150kg Packaging instructions: 203
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	No data available	No data available	No data available

**SECTION 15: REGULATORY INFORMATION**

Safety, health and environmental regulations specific for the product

: Relevant information regarding authorization: Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances. Relevant information regarding restrictions: None known. EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP] and EU directives 67/548/EEC or EC 1999/45/EC Other National regulations: None. Standards used for PPE recommendations in Section 8: NIOSH-National Institute for Occupational Health and Safety (USA) EN 166 European standard which concerns the area of eye protection. EN 374-3 European standards for permeation and penetration. EN 141/EN 143 European standards for gas mixtures to remove specified gases and vapours or combined filters for removing solids, and/or liquid particles and specified gases and vapours.





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**SECTION 16: OTHER INFORMATION**

**History**

Date of review : 29/09/2022

Date of review	Version	Amendments
29/09/2022	8.0	Classification alignment
30/06/2022	7.0	GHS Purple Book version 9 alignment
22/09/2020	6.0	GHS compliant SDS
27/03/2019	5.0	-

Date of previous issue : 30/06/2022

Key to abbreviations : ATE = Acute Toxicity Estimate  
BCP Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL 73/78 = International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OHSWA = Occupational Health and Safety Act, 1993 (South Africa)  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
UN = United Nations

References : Supplier Safety Data Sheets.

**Further information:**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.



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Notice to readers:

Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be only used as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.