



AD94 3D Weld 40 ml

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

Supersedes date 27-Jul-2020***

Revision date 16-Mar-2026

Revision Number 6 dated 04.05.2026

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

1.1. Product identifier

Product Code(s)	AD94
Safety data sheet number	51370***
Product Name	3D WELD
EC Number	211-463-5***
CAS No	646-06-0***
UFI	RA50-K0H4-H005-GWX2
Molecular weight	74.08***

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

Recommended use Solvent for model hobby use

1.3. Details of the supplier of the safety data sheet

Supplier

Name	Deluxe Materials Ltd.,
Full address	Unit 12/13, Cufaude Business Park, Cufaude Lane, Bramley, Hampshire, RG26 5DL United Kingdom
Telephone	+44(0)1256 883944

EU Representative for GPSR
Authorised Rep Compliance Ltd.,
Ground Floor 71 Lower Baggot Street,
Dublin, D02 P593, Ireland
www.arccompliance.com

For further information, please contact

E-mail address john@deluxematerials.com

1.4. Emergency telephone number

Emergency Telephone Tel. +44(0)1256 883944 not 24hr Mon – Fri 0900-1700

SECTION 2: Hazards identification



SAFETY DATA SHEET AD94 3D Weld 40 ml

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

2.1. Classification of the substance or mixture

Flammable liquids***	Category 2*** - (H225)***
Serious eye damage/eye irritation	Category 1*** - (H318)***
Reproductive toxicity	Category 1B*** - (H360FD)***

2.2. Label elements

Contains 1,3-DIOXOLANE



Signal word

Danger***

Hazard statements

H318 - Causes serious eye damage

H360FD - May damage fertility. May damage the unborn child***

H225 - Highly flammable liquid and vapour***

Precautionary statements

P201 - Obtain special instructions before use

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

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

P310 - Immediately call a POISON CENTER or doctor

P403 + P235 - Store in a well-ventilated place. Keep cool***

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances***

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
1,3-DIOXOLANE*** 646-06-0	90 - 100%	211-463-5***	-	Flam. Liq. 2 (H225) Eye Dam. 1 (H318) Repr. 1B (H360FD)***	-	-	-
METHANOL*** 67-56-1	0 - 10%	200-659-6 (603-001-00-X)***	-	Flam. Liq. 2 (H225) Acute Tox. 3 (H301) Acute Tox. 3 (H311)	STOT SE 1 :: C>=10% STOT SE 2 ::	-	-



SAFETY DATA SHEET AD94 3D Weld 40 ml

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

				Acute Tox. 3 (H331) STOT SE 1 (H370) ***	3%≤C<10%** *		
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Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration ≥ 0.1% (UK REACH Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.***
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.***
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical attention. Remove contact lenses, if present and easy to do. Continue rinsing.***
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.***
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.***
Self-protection of the first aider	Remove all sources of ignition. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.***

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

Symptoms	Burning sensation.***
Eyes	Causes serious eye damage. Burning sensation.***

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	Dry chemical. Carbon dioxide (CO ₂). Water spray. Alcohol resistant foam.***
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	Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.***
Hazardous combustion products	Carbon oxides.***



SAFETY DATA SHEET AD94 3D Weld 40 ml

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges.***

Other information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.***

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.***

6.3. Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.***

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.***

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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Avoid contact with skin, eyes or clothing. Remove contaminated clothing and shoes.***

General hygiene considerations Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.***

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static



SAFETY DATA SHEET AD94 3D Weld 40 ml

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

electricity). Keep in properly labelled containers. Do not store near combustible materials.
Store in accordance with the particular national regulations.***

7.3. Specific end use(s)

Specific use(s)

See section 1 for more information.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	United Kingdom
METHANOL*** 67-56-1	TWA: 200 ppm TWA: 266 mg/m ³ STEL: 250 ppm STEL: 333 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.

Derived No Effect Level (DNEL) - Workers ***

Chemical name	Oral	Dermal	Inhalation
1,3-DIOXOLANE*** 646-06-0		0.93 mg/kg/day [4] [6]***	3.26 mg/m ³ [4] [6]***
METHANOL*** 67-56-1		20 mg/kg bw/day [4] [6] 20 mg/kg bw/day [4] [7]***	130 mg/m ³ [4] [6] 130 mg/m ³ [4] [7] 130 mg/m ³ [5] [6] 130 mg/m ³ [5] [7]***

[4] Systemic health effects.***
[5] Local health effects.***
[6] Long term.***
[7] Short term.***

Derived No Effect Level (DNEL) - General Public ***

Chemical name	Oral	Dermal	Inhalation
1,3-DIOXOLANE*** 646-06-0	0.33 mg/kg/day [4] [6]***	0.33 mg/kg/day [4] [6]***	1.48 mg/kg/day [4] [6]***
METHANOL*** 67-56-1	4 mg/kg bw/day [4] [6] 4 mg/kg bw/day [4] [7]***	4 mg/kg bw/day [4] [6] 4 mg/kg bw/day [4] [7]***	26 mg/m ³ [4] [6] 26 mg/m ³ [4] [7] 26 mg/m ³ [5] [6] 26 mg/m ³ [5] [7]***

[4] Systemic health effects.***
[5] Local health effects.***
[6] Long term.***



SAFETY DATA SHEET AD94 3D Weld 40 ml

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

[7] Short term.***

Predicted No Effect Concentration (PNEC) ***

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
1,3-DIOXOLANE*** 646-06-0	19.7 mg/l***	100.0 mg/L***	1.97 mg/l***		
METHANOL*** 67-56-1	20.8 mg/L***	1540 mg/L***	2.08 mg/L***		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
1,3-DIOXOLANE*** 646-06-0	77.7 mg/kg***	7.77 mg/kg***	1 mg/L***	2.62 mg/kg***	
METHANOL*** 67-56-1	77 mg/kg sediment dw***	7.7 mg/kg sediment dw***	100 mg/L***	100 mg/kg soil dw***	

8.2. Exposure controls

Engineering controls No information available.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). According to EN 16321-1.***

Hand protection Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374.***

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
Short term***	PVC***	1.2 mm***	> 60 minutes***

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.***

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.

Type A.***

General hygiene considerations Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.***

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid***
Appearance Liquid***
Colour Colourless***



SAFETY DATA SHEET AD94 3D Weld 40 ml

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

Odour	Mild.***	
Odour threshold	No information available	
Property	Values	Remarks • Method
Melting point / freezing point	<*** -90.0*** °C***	***
Initial boiling point and boiling range	76.0*** °C***	OECD 103.***
Flammability		No information available.
Flammability Limit in Air		No information available.
Upper flammability or explosive limits	30.5%***	
Lower flammability or explosive limits	2.3%***	
Flash point	<*** 2.5*** °C***	***
Autoignition temperature	250*** °C***	***
Decomposition temperature		No information available.
pH		No information available.
pH (as aqueous solution)		No information available.
Kinematic viscosity	0.56*** mm ² /s***	25.0 °C.***
Dynamic viscosity		No information available.
Water solubility	Soluble in water***	***
Solubility(ies)		No information available.
Partition coefficient	log Kow: -0.37***	@ 20.0 °C.***
Vapour pressure	101 hPa***	@ 20.0 °C.***
Relative density	1.06***	20.0 °C.***
Bulk density	1060 kg/m ³ ***	No information available
Liquid Density	No information available	No information available
Relative vapour density		No information available.
Particle characteristics		No information available.
Particle Size	No information available	
Particle Size Distribution	No information available	
Explosive properties	No information available	
Oxidising properties	No information available	
9.2. Other information		
Molecular weight	74.08***	
Refractive Index	1.401*** 0.29***	

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable under recommended storage conditions.***

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes.***

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks.***

10.5. Incompatible materials



SAFETY DATA SHEET AD94 3D Weld 40 ml

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Incompatible materials Strong acids. Strong oxidising agents.***

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon monoxide.***

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information	***
Inhalation	May cause irritation.***
Eye contact	Causes serious eye damage.***
Skin contact	May cause slight irritation.***
Ingestion	Gastrointestinal discomfort.***

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness.***

Acute toxicity

Numerical measures of toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1,3-DIOXOLANE***	> 2000 mg/kg (Rat) ***	> 2000 mg/kg (Rabbit)***	= 68.4 mg/L (Rat) 4 h***
METHANOL***	300 mg/kg***	300 mg/kg***	3 mg/L***

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

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	Causes serious eye damage.***
Respiratory or skin sensitisation	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	May damage fertility or the unborn child.***



SAFETY DATA SHEET AD94 3D Weld 40 ml

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The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.***

Chemical name	United Kingdom
1,3-DIOXOLANE***	Repr. 1B***

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Not considered to be harmful to aquatic life.***

1,3-DIOXOLANE (646-06-0)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test***	Lepomis macrochirus***	LC50***	>95.4 mg/L***	96 hours***	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test***	Daphnia magna***	EC50***	>772 mg/L***	48 hours***	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test***	Selenastrum capricornutum***	NOEC***	877 mg/L***	72 hours***	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test***	Selenastrum capricornutum***	ErC50***	>877 mg/L***	72 hours***	

METHANOL (67-56-1)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Pimephales promelas***	LC50***	28100 mg/L***	96 hours***	

12.2. Persistence and degradability

Persistence and degradability Not readily biodegradable.***

1,3-DIOXOLANE (646-06-0)

Method	Exposure time	Value	Results
OECD Test No. 301C: Ready Biodegradability: Modified MITI Test (I) (TG 301 C)***		20% Biodegradation***	

12.3. Bioaccumulative potential

Bioaccumulation No information available.***



SAFETY DATA SHEET AD94 3D Weld 40 ml

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Component Information ***

Chemical name	Partition coefficient
1,3-DIOXOLANE***	-0.35***
METHANOL***	-0.77***

12.4. Mobility in soil

Mobility in soil Soluble in water.***

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
1,3-DIOXOLANE***	The substance is not PBT / vPvB***
METHANOL***	The substance is not PBT / vPvB***

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.***

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.***

SECTION 14: Transport information

IATA

14.1 UN number or ID number	UN1166***
14.2 UN proper shipping name	DIOXOLANE***
14.3 Transport hazard class(es)	3***
14.4 Packing group	II***
14.5 Environmental hazards	No***
14.6 Special precautions for user	
Special Provisions	None
ERG Code	3L***

IMDG

14.1 UN number or ID number	UN1166***
14.2 UN proper shipping name	DIOXOLANE***
14.3 Transport hazard class(es)	3***
14.4 Packing group	II***
14.5 Environmental hazards	No***
14.6 Special precautions for user	
Special Provisions	None
EmS-No	F-E, S-D***
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID

14.1 UN number or ID number	UN1166***
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SAFETY DATA SHEET AD94 3D Weld 40 ml

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

14.2 UN proper shipping name	DIOXOLANE***
14.3 Transport hazard class(es)	3***
14.4 Packing group	II***
14.5 Environmental hazards	No***
14.6 Special precautions for user	
Special Provisions	None
Classification code	F1***

ADR

14.1 UN number or ID number	UN1166***
14.2 UN proper shipping name	DIOXOLANE***
14.3 Transport hazard class(es)	3***
14.4 Packing group	II***
14.5 Environmental hazards	No***
14.6 Special precautions for user	
Special Provisions	None
Classification code	F1***
Tunnel restriction code	(D/E)***

SECTION 15: Regulatory information

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

National regulations

Authorisations and/or restrictions on use:

This product contains one or more substances subject to restriction (UK REACH - Annex XVII).

This product does not contain substances subject to authorisation (UK REACH - Annex XIV).***

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
METHANOL*** - 67-56-1	69, 75.***	-

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Dangerous substance category per COMAH Regulations 2015 (as amended)

P5c - FLAMMABLE LIQUIDS***

Named dangerous substances per COMAH Regulations 2015 (as amended)

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
METHANOL*** - 67-56-1	500***	5000***

The Ozone-Depleting Substances Regulations 2015

Not applicable

The Biocidal Products Regulations 2001 (as amended)

Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)

Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)

Not applicable



SAFETY DATA SHEET AD94 3D Weld 40 ml

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDSL	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
KECI	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status

Legend:

TSCA	- United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL	- 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
AIIC	- Australian Inventory of Industrial Chemicals
NZIoC	- New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report A Chemical Safety Assessment has been carried out for this substance***

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

H225 - Highly flammable liquid and vapour
H301 - Toxic if swallowed
H311 - Toxic in contact with skin
H318 - Causes serious eye damage
H331 - Toxic if inhaled
H360FD - May damage fertility. May damage the unborn child
H370 - Causes damage to organs***

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
+	Sensitisers		

Revision Note ***Indicates updated data since last publication

Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity***	Calculation method***
Acute dermal toxicity***	Calculation method***
Acute inhalation toxicity - gas***	Calculation method***
Acute inhalation toxicity - vapour***	Calculation method***
Acute inhalation toxicity - dust/mist***	Calculation method***
Skin corrosion/irritation***	Calculation method***
Serious eye damage/eye irritation***	Calculation method***
Respiratory sensitisation***	Calculation method***
Skin sensitisation***	Calculation method***



SAFETY DATA SHEET AD94 3D Weld 40 ml

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

Mutagenicity***	Calculation method***
Carcinogenicity***	Calculation method***
STOT - single exposure***	Calculation method***
STOT - repeated exposure***	Calculation method***
Acute aquatic toxicity***	Calculation method***
Chronic aquatic toxicity***	Calculation method***
Aspiration hazard***	Calculation method***
Ozone***	Calculation method***

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)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGL(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)
National Institute of Technology and Evaluation (NITE)
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)
U.S. 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

Prepared By Deluxe Materials Ltd.

Supercedes date 27-Jul-2020***

Supercedes date 16-Mar-2026

Revision date 04-May-2026

**This material safety data sheet complies with the requirements of UK REACH Regulations (SI 2019/758 as amended)
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**

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet