

SMS-01

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF SUBSTANCE / MIXTURE & COMPANY/UNDERTAKING

1.1 Product Identifier

Name SMS-01

Safety Data Sheet Number 064

1.2 Relevant Identified Uses of the Product and Uses Advised Against

Intended Use Mutual Solvent

Uses Advised Against None

1.3 Supplier Details

Manufacturer Aubin Limited
Unit 1 Castle Street
Castlepark Industrial Estate
Ellon, Aberdeenshire
Scotland, AB41 9RF

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SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Product

CLP Classification (EC No 1272/2008)

Hazard Statement

H332 – Harmful if inhaled – Category 4

H302 – Harmful if swallowed – Category 4

H312 – Harmful in contact with skin – Category 4

H319 – Causes serious eye irritation – Category 2

H315 – Causes skin irritation – Category 2



2.2 Label Elements



Warning

Precautionary Statements Prevention

P261 – Avoid breathing fume / mist / vapours / spray.

P271 – Use only outdoors or in a well ventilated area.

P270 – Do not eat, drink or smoke when using this product.

P264 – Wash affected area thoroughly after handling.

P280 – Wear protective gloves / protective clothing / eye protection / face protection.

Precautionary Statements Response

P304+P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301+P312 – IF SWALLOWED: Immediately call a POISON CENTRE, doctor/physician if you feel unwell.

P330 – Rinse mouth.

P363 – Wash contaminated clothing before reuse.

P337+P313 – If eye irritation persists: Get medical advice /attention.

P302+P352 – IF ON SKIN: Wash with plenty soap and water.

P332+P313 – If skin irritation occurs: Get medical advice / attention.

P362 – Take off contaminated clothing and wash before reuse.

Precautionary Statements Disposal

P501 – Dispose of contents / container in an environmentally safe manner observing local and national regulations.

2.3 Other Hazards

PBT assessment is not applicable.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Declarable Component/REACH Registration Number	CAS Number	Concentration (%w/w)	Hazard Information
2-Butoxy ethanol	111-76-2	50 - 100	H332, H302, H312, H319, H315
01-2119475108-36			



3.2 Mixtures

Declarable Component/REACH Registration Number	CAS Number	Concentration (%w/w)	Hazard Information
N/A			
XX-XXXXXXXXXX-XX			

SECTION 4:1 FIRST AID MEASURES

Inhalation	Remove victim from exposure. If unconscious, check for breathing and apply artificial respiration if necessary. If breathing becomes bubbly, have the patient sit and provide oxygen if available. Immediately seek medical attention.
Skin Contact	Remove contaminated clothing, unless stuck to skin and wash before reuse. Wash the skin with plenty of running water. If a large area of the skin is damaged or if the irritation persists then seek medical attention.
Eye Contact	Flush the eyes with water for several minutes, remove contact lenses if present and easy to do, continue flushing. If irritation persists seek medical attention.
Ingestion	Wash out the victim's mouth with water. Do not induce vomiting. If the patient is conscious give them water to drink. Seek medical attention.
Other	N/A

4.2 Symptoms and Effects Acute and Delayed

None known.

4.3 Immediate Medical Attention/Special Treatment

Treat symptomatically. Seek medical advice/attention.

SECTION 5: FIRE FIGHTING MEASURES**5.1 Suitable Extinguishing Media**

Water spray. Alcohol resistant foam, dry chemical or carbon dioxide.

5.2 Special Hazards Arising from the Product

Unusual Fire & Explosion Hazards	Vapours may travel considerable distance to source of ignition and flash back. Forms explosive air- vapour mixture.
Hazardous Combustion Products	Carbon monoxide.



5.3 Special Protective Actions for Fire Fighters

Wear suitable protective clothing including self-contained breathing apparatus. Use water to cool exposed containers and disperse vapours.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Wear suitable personal protective equipment – See Section 8. Avoid inhalation of vapours and aerosol spray. Always locate a spill kit nearby the area where the product is being used.

6.2 Environmental Precautions

Prevent spill from entering drains or watercourses. If spill reaches a water course immediately inform the appropriate authorities.

6.3 Methods and Material for Containment and Cleaning Up

Absorb spill with inert material such as sand or vermiculite, collect and place all waste in suitable containers for disposal. In case of soil contamination remove the contaminated soil. Wash the spill site with water, do not allow washings to reach a watercourse or drainage system. Dispose of all waste material via a licensed waste management contractor observing all local and national regulations.

6.4 Reference to other Sections

Refer to section 8 and Section 13 for more information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Use in a well-ventilated area. Avoid the formation of mists in the air. Wear protective clothing – See section 8. Wash hands thoroughly after handling.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Store away from ignition sources. Store in cool, dry conditions. Keep containers tightly sealed. Store only in original container. Empty drums should be completely drained, properly bunged, and disposed of in an environmentally safe manner.

7.3 Specific end Use(s)

See technical data sheet for this product for further information.



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Occupational Exposure Standard**

Component	TWA 8hr	15 min ref
2-Butoxyethanol	25ppm / 123mg/m ³	50ppm / 246mg/m ³

DNELs – 2-Butoxyethanol

Workers				
Route of exposure	Short-term local	Short-term systemic	Long-term local	Long-term systemic
Oral	Not required – Consumer use only			
Inhalation	1091mg/m ³	246mg/m ³	iii	98mg/m ³
Dermal	i	89mg/kg	iii	125mg/kg
Note: (i) hazard identified but no DNEL available, (ii) no exposure expected, (iii) no hazard identified				

PNECs – 2-Butoxyethanol

Environmental Protection Target	PNEC Value
PNEC aquatic, fresh water	8.8mg/L
PNEC sediment, freshwater	34.6 mg/kg sediment dw
PNEC aquatic, marine water	0.88mg/L
PNEC sediment, marine water	No data
PNEC secondary poisoning	20mg/kg food
PNEC sewage treatment plant (STP)	463mg/L
PNEC soil (agriculture)	2.33mg/kg soil dw
PNEC air	No info

8.2 Exposure Controls, PPE

Always handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes, skin and clothing, do not breath vapours/sprays/mists. Do not eat, drink or smoke when handling this product. Wash hands before breaks and at the end of each shift. Remove and wash all contaminated clothing before re-use.

PPE

Control	Details
Engineering Controls	Ensure good ventilation. (3-5 air changes/hour). RPE EN141 with organic filter.
Eye/Face Protection	Safety glasses or goggles. EN166 approved.
Skin/Hand Protection	Butyl rubber, neoprene or nitrile gloves.



Other Protective Equipment	Protective clothing and safety boots.
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Physical and Chemical Properties

Appearance	Colourless liquid	Specific Gravity (g/cc)	0.89-0.91 @20°C
Odour	Mild	Odour Threshold	No data
Viscosity	3.3mPa.s @ 20°C	pH	Not determined
Boiling Point/Range (°C)	98° – 170°C	Melting point/freezing point(°C)	Undetermined
Flash Point(c/c) (°C)	67°C	Auto-Ignition Temperature (°C)	230°C
Flammability Limit (upper)	12%	Flammability Limit (lower)	1.1%
Vapour Density (air=1)	Not determined	Evaporation Rate	0.06(butyl acetate = 1)
Solubility in Organic Solvents	No data	Solubility in Water	Soluble
Vapour Pressure	No data	Oxidising Properties	No data
Partition coefficient: n-octanol/water	0.81 log Pow	Decomposition Temperature	No data

9.2 Other Information

Setting temperature/range -75°C

SECTION 10: STABILITY & REACTIVITY

10.1 Reactivity

Not known to be chemically reactive.



10.2 Chemical Stability

Stable under normal ambient conditions of use and storage.

10.3 Possibility of Hazardous Reactions

None known.

10.4 Conditions to Avoid

Avoid excessive heat for prolonged periods of time. Ignition sources

10.5 Incompatible Materials

Strong oxidising agents, bases, reducing agents. Alkali earth metals.

10.6 Hazardous Decomposition Products

Thermal decomposition may emit fumes of carbon monoxide and carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on Toxicological Effects of Substance/Mixture**

Acute Toxicity	Hazard/Additional Information
Inhalation	Harmful if inhaled - LC_{50} 4hr 2 -20mg/L Rat.
Dermal	Harmful in contact with skin – LD_{50} >2000mg/kg Dermal, <i>Cavia porcellus</i> .
Oral	Harmful if ingested – LD_{50} 1300mg/kg Oral, Rat.
Skin Corrosion/Irritation	Prolonged exposure may cause irritation.
Serious eye damage/irritation	Causes serious eye irritation – pain redness and excessive watering.
Respiratory/Skin sensitisation	Based on the available data, the classification criteria are not met.
Germ Cell mutagenicity	Based on the available data, the classification criteria are not met.
Carcinogenicity	Based on the available data, the classification criteria are not met.
Reproductive toxicity	Based on the available data, the classification criteria are not met.
STOT - single exposure	Based on the available data, the classification criteria are not met.
STOT - repeated exposure	Based on the available data, the classification criteria are not met.
Aspiration hazard	Based on the available data, the classification criteria are not met.



11.2 Information on Hazardous Components

No further relevant information.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

Not considered harmful to the aquatic environment. *Daphnia magna* 48hr EC_{50} 1550mg/L, *Oncorhynchus mykiss* 96hr LC_{50} 1474mg/L

12.2 Persistence and Degradability

Expected to be biodegradable - 90.4% - 28d

12.3 Bioaccumulative Potential

Not expected to bioaccumulate – $BCF < 100$

12.4 Mobility in Soil and Environmental Fate

Koc 50 – 180

Surface Tension				
Value	Temperature	Concentration	Method	Remarks
No data				

12.5 Results of PBT and vPvB assessment

Not identified as a PBT substance.

12.6 Other Environmental Information

No further relevant information.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Disposal of Waste Product**

Dispose of via a licensed waste management contractor observing all local and national regulations. Waste codes should be assigned by the user, preferably in discussion with waste disposal authorities.

13.2 Disposal of Waste Containers

Ensure containers are thoroughly drained prior to disposal via a licensed waste management contractor observing all local and national regulations.



SECTION 14: TRANSPORT/LABEL INFORMATION

This product is not covered by international regulation on the transport of dangerous goods. (IMDG, IATA, ADR/RID)

14.1 UN Number	N/A
14.2 Proper Shipping Name	N/A
14.3 Transport Hazard Class(es)	N/A
14.4 Packing Group	N/A
14.5 Environmental Hazards	N/A
14.6 Special Precautions for User	N/A
14.7 Transport in Bulk	N/A

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EC1272/2008 – Classification, labelling and packaging of substances and mixtures

EC1907/2006 – REACH

Globally Harmonised System – GHS

Commission Regulation (EU) No 2015/830 of 28 May 2015

15.2 Chemical Safety Assessment

Not available for this product.



SECTION 16: OTHER INFORMATION

Most recent revision(s) are noted by the bold double bars in the left hand margin throughout this document.

Abbreviations and Acronyms	
CAS Number	Chemical Abstracts Service number
REACH	Registration, Evaluation, Authorisation and restrictions of Chemicals
DNEL	Derived no effect Level
LC ₅₀	Lethal concentration 50%
LD ₅₀	Median Lethal dose
PBT	Persitent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration

The data contained herein does not constitute the user's own assessment of workplace risk as required by other health and safety legislation. The data does not signify any warranty with regard to the product's properties.



