EDS-Activator™

Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations
Issue date: 8/05/2025 Revision date: 8/05/2025 Version: 1.0

SECTION 1: Product identifier

1.1. GHS Product identifier

Product form : Mixture
Product name : EDS-Activator™

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Remediation of contaminated groundwater and soils. Chemical for synthesis.
Restrictions on use : Use only as directed on label.

1.4. Details of manufacturer or importer

Manufacturer
Sydney Solvents Pty Ltd
Unit 3, 10 Production Place
Jamisontown, NSW 2750
T 02 4722 5060 (office hours) - F 02 4722 5070
sales@sydneysolvents.com.au - www.sydneysolvents.com.au

Distributor
Micronovo Technologies Pty Ltd
Gate 3, Botany Industrial Park
Denison St
Banksmeadow, NSW 2019
sales@micronovotech.com.au – www.micronovotech.com.au

1.5. Emergency phone number

Emergency number : Poisons Information Centre: 13 1126 from anywhere in Australia, (0800 764 766 in New Zealand);
Emergency Chemcall : 1800 127 406

SECTION 2: Hazard identification

2.1. Classification of the hazardous chemical

Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Flammable liquids, Category 2	H225
Acute toxicity (oral), Category 3	H301
Acute toxicity (dermal), Category 3	H311
Acute toxicity (inhalation:vapour) Category 3	H331
Skin corrosion/irritation, Category 1A	H314
Serious eye damage/eye irritation, Category 1	H318
Specific target organ toxicity – single exposure, Category 1	H370

2.2. GHS Label elements, including precautionary statements

Hazard pictograms (GHS AU) :

GHS02 Flame | GHS05 Corrosion | GHS06 Skull and crossbones | GHS08 Health hazard

Signal word (GHS AU) : Danger
Contains : Methanol (80 – 95 %); Potassium hydroxide (1 – 10 %)
Hazard statements (GHS AU) : H225 - Highly flammable liquid and vapour
H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled
H314 - Causes severe skin burns and eye damage
H370 - Causes damage to organs (optic nerve, CNS)
Precautionary statements (GHS AU) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240 - Ground and bond container and receiving equipment.
P241 - Use explosion-proof equipment.
P233 - Keep container tightly closed.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .
P361+P364 - Take off immediately all contaminated clothing and wash it before reuse.
P363 - Wash contaminated clothing before reuse.
P304+P340 - IF INHALED: Remove person to fresh air and keep 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.
P310 - Immediately call a POISON CENTER or doctor.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition and information on ingredients

Name	CAS-No.	%
Methanol	67-56-1	80 – 95
Potassium hydroxide	1310-58-3	1 – 10
Other substances (not contributing to the classification of this product)	Propriatary	To 100%

SECTION 4: First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : IF exposed or concerned: Call a POISON CENTER/doctor.

First-aid measures after inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

First-aid measures after skin contact : If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

First-aid measures after ingestion : IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. Never give anything by mouth to an unconscious person.

4.2. Symptoms caused by exposure

Symptoms/effects : Causes damage to organs (optic nerve, central nervous system). Inhalation, ingestion or skin absorption of methanol can cause significant disturbances in vision, including blindness.

Symptoms/effects after inhalation : Toxic if inhaled. Causes burns to the respiratory system.

Symptoms/effects after skin contact : Toxic in contact with skin. Causes severe skin burns. Symptoms may include redness, pain, blisters.

Symptoms/effects after eye contact : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.

Symptoms/effects after ingestion : Toxic if swallowed. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

4.3. Medical attention and special treatment

Other medical advice or treatment : Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO_2). Dry powder.
Unsuitable extinguishing media : Do not use water jet. Foam.

5.2. Specific hazards arising from the chemical

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon. Toxic fumes. Formaldehyde. Formic acid.
General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).
Hazchem Code : * 3WE

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.1.1. For non-emergency personnel

Emergency procedures : Do not touch or walk on the spilled product.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

For containment : Stop leak if safe to do so. Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.
Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Use explosion-proof equipment. Do not get in eyes, on skin, or on clothing. Do not breathe dust, fume, gas, mist, spray, vapours. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area.
Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse. Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well-ventilated place. Store locked up.

Storage temperature : < 30 °C / 86 °F

SECTION 8: Exposure controls and personal protection

8.1. Control parameters - exposure standards

Methanol (67-56-1)	
Australia - Occupational Exposure Limits	
Local name	Methyl alcohol (Methanol)
OES TWA	262 mg/m³
OES TWA	200 ppm
OES STEL	328 mg/m³
OES STEL	250 ppm
Remark (AU)	Sk - Absorption through the skin may be a significant source of exposure.
Regulatory reference	Workplace exposure standards for airborne contaminants (2022)
USA - ACGIH - Occupational Exposure Limits	
ACGIH® TLV® TWA	200 ppm
ACGIH® TLV® STEL	250 ppm
ACGIH chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route
USA - ACGIH - Biological Exposure Indices	
BEI	15 mg/l Parameter: Methanol - Medium: urine - Sampling time: end of shift (background, nonspecific)
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	260 mg/m³
IOEL TWA	200 ppm
Remark	Possibility of significant uptake through the skin
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	266 mg/m³
WEL TWA (OEL TWA)	200 ppm
WEL STEL (OEL STEL)	333 mg/m³
WEL STEL (OEL STEL)	250 ppm
WEL chemical category	Potential for cutaneous absorption

Potassium hydroxide (1310-58-3)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH® TLV® C	2 mg/m³
United Kingdom - Occupational Exposure Limits	
WEL STEL (OEL STEL)	2 mg/m³

8.2. Biological Monitoring

No additional information available

8.3. Engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.

8.4. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Wear suitable gloves resistant to chemical penetration. Consult glove manufacturer's product information on material suitability and material thickness.

Type	Material	Thickness (mm)	Break through time
Full Contact	Butyl rubber	0.7 mm	> 480 min
Splash Contact	Viton®	0.7 mm	> 120 min

Eye protection : Wear eye/face protection

Skin and body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. 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. SDSs cannot provide detailed and complete respiratory protection guidelines. Selection of respiratory protection must be done by a qualified person who has assessed the work environment.

Environmental exposure controls : Avoid release to the environment.

Other information : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

Physical state : Liquid

Appearance : No data available

Colour : Colourless

Odour : Methanolic

Odour threshold : No data available

pH : 11

pH solution : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point / Freezing point : Melting point: < -4 °F (< -20 °C)

Boiling point : 200.3 °F (93.5 °C) at 1,013 hPa

Flash point : 51 °F (29.7 °C)

Auto-ignition temperature : 779 °F (415 °C) (DIN 51794)

Flammability : No data available

Vapour pressure : Vapour pressure: 180 hPa at 122 °F (50 °C), 36 hPa at 68 °F (20 °C)

Relative density : No data available

Density : Density: 0.849 g/cm³ (7.085 lbs./gallon) at 77 °F (25 °C)

Solubility : Water: at 68 °F (20 °C) (decomposition)

Partition coefficient n-octanol/water : log Pow: -0.74 (20 °C), Methanol Bioaccumulation is not expected.

Viscosity, kinematic : 21.201 mm²/s

Viscosity, dynamic : 18 mPa·s at 68 °F (20 °C)

Explosive properties : Not explosive.

Explosive limits : 5.5 – 36.5 vol % Methanol

Minimum ignition energy : No data available

Fat solubility : No data available

SECTION 10: Stability and reactivity

Reactivity : No dangerous reactions known under normal conditions of use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use.

Conditions to avoid : Heat. Incompatible materials. Avoid impact. Sparks. Ignition sources.

Incompatible materials : Strong oxidizers. Acids. Hydrogen peroxide. Chromic anhydride. Nitric acid. Sulfuric acid. nitrosyl perchlorate. Permonosulfuric acid. Potassium tert-butoxide. Sodium hypobromite. Chlorinated melamine.

Hazardous decomposition products : May include, and are not limited to: oxides of carbon. Toxic fumes. Formaldehyde. Formic acid.

SECTION 11: Toxicological information

Acute toxicity (oral) : Toxic if swallowed.
Acute toxicity (dermal) : Toxic in contact with skin.
Acute toxicity (inhalation) : Inhalation:vapour: Toxic if inhaled.

EDS-Activator™	
ATE AU (oral)	101.501 mg/kg bodyweight
ATE AU (dermal)	315.789 mg/kg bodyweight
ATE AU (vapours)	3.158 mg/l/4h

Methanol (67-56-1)	
LD50 oral rat	1187 – 2769 mg/kg bodyweight Animal: rat
LD50 dermal rabbit	15840 mg/kg (Source: NLM_HSDB)
LC50 inhalation rat	64000 ppm/4h

Potassium hydroxide (1310-58-3)	
LD50 oral rat	284 mg/kg (Source: JAPAN_GHS)
LD50 oral	284 mg/kg

Skin corrosion/irritation : Causes severe skin burns.
pH: 11
Serious eye damage/irritation : Causes serious eye damage.
pH: 11
Respiratory or skin sensitization : Not classified.
Germ cell mutagenicity : Not classified.
Carcinogenicity : Not classified.
Reproductive toxicity : Not classified.

Methanol (67-56-1)	
NOAEL (animal/male, F0/P)	< 1000 mg/kg bodyweight Animal: mouse, Animal sex: male

STOT-single exposure : Causes damage to organs.

Methanol (67-56-1)	
STOT-single exposure	Causes damage to organs.

STOT-repeated exposure : Not classified.
Aspiration hazard : Not classified.

EDS-Activator™	
Viscosity, kinematic	21.201 mm²/s

Methanol (67-56-1)	
Viscosity, kinematic	0.687 – 0.746 mm²/s

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye

SECTION 12: Ecological information

According to the National Code of Practice for the Preparation of Material Safety Data Sheets, Environmental classification information is not mandatory. Information relevant for GHS classification is available on request.

12.1. Ecotoxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

Hazardous to the aquatic environment, short–term (acute) : Not classified.
Hazardous to the aquatic environment, long–term (chronic) : Not classified.
Other information : No other effects known.

Methanol (67-56-1)	
LC50 - Fish [1]	15400 mg/l Test organisms (species): Lepomis macrochirus
LC50 - Fish [2]	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
NOEC (chronic)	208 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	446.7 mg/l Test organisms (species): Pimephales promelas Duration: '28 d'
BCF - Fish [1]	(10 dimensionless)
Partition coefficient n-octanol/water	-0.77
LD50 dermal rabbit	15840 mg/kg (Source: NLM_HSDB)
LD50 oral rat	1187 – 2769 mg/kg bodyweight Animal: rat

Potassium hydroxide (1310-58-3)	
Partition coefficient n-octanol/water	0.65
LD50 oral rat	284 mg/kg (Source: JAPAN_GHS)

12.2. Persistence and degradability

EDS-Activator™	
Persistence and degradability	Not established.

Methanol (67-56-1)	
Persistence and degradability	Rapidly degradable

Potassium hydroxide (1310-58-3)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

EDS-Activator™	
Partition coefficient n-octanol/water	log Pow: -0.74 (20 °C), Methanol Bioaccumulation is not expected.
Bioaccumulative potential	Not established.

Methanol (67-56-1)	
BCF - Fish [1]	(10 dimensionless)
Partition coefficient n-octanol/water	-0.77

Potassium hydroxide (1310-58-3)	
Partition coefficient n-octanol/water	0.65

12.4. Mobility in soil

EDS-Activator™	
Partition coefficient n-octanol/water	log Pow: -0.74 (20 °C), Methanol Bioaccumulation is not expected.

Methanol (67-56-1)	
Partition coefficient n-octanol/water	-0.77

Potassium hydroxide (1310-58-3)	
Partition coefficient n-octanol/water	0.65

12.5. Other adverse effects

Ozone : Not classified.
Other adverse effects : No additional information available

EDS-Activator™	
Fluorinated greenhouse gases	False

Methanol (67-56-1)	
Fluorinated greenhouse gases	False

Potassium hydroxide (1310-58-3)	
Fluorinated greenhouse gases	False

SECTION 13: Disposal considerations

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: Transport information

In accordance with ADG / IMDG / IATA

14.1. UN number

UN-No. (ADG) : 2924
UN-No. (IMDG) : 2924
UN-No. (IATA) : 2924

14.2. UN Proper Shipping Name

Proper Shipping Name (ADG) : FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Methanol and Potassium Hydroxide)
Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Methanol and Potassium Hydroxide)
Proper Shipping Name (IATA) : Flammable liquid, corrosive, n.o.s. (Methanol and Potassium Hydroxide)
Transport document description (ADG) : Not applicable
Transport document description (IMDG) : UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S., 3 (8), II
Transport document description (IATA) : UN 2924 Flammable liquid, corrosive, n.o.s., 3 (8), II

14.3. Transport hazard class(es)

ADG
Transport hazard class(es) (ADG) : 3 (8)
Danger labels (ADG) : 3, 8
:

IMDG
Transport hazard class(es) (IMDG) : 3 (8)
Danger labels (IMDG) : 3, 8
:

IATA
Transport hazard class(es) (IATA) : 3 (8)
Danger labels (IATA) : 3, 8

:

14.4. Packing group

Packing group (ADG)	:	II - Substances presenting medium danger
Packing group (IMDG)	:	II
Packing group (IATA)	:	II

14.5. Environmental hazards

Marine pollutant	:	No
Dangerous for the environment	:	No
Other information	:	No supplementary information available.

14.6. Special precautions for user

Specific storage requirement	:	No data available
Shock sensitivity	:	No data available

14.7. Additional information

Other information	:	No supplementary information available.
Special transport precautions	:	Do not handle until all safety precautions have been read and understood.

Transport by road and rail

UN-No. (ADG)	:	2924
Special provision (ADG)	:	274
Limited quantities (ADG)	:	1l
Excepted quantities (ADG)	:	E2
Packing instructions (ADG)	:	P001, IBC02
Portable tank and bulk container instructions (ADG)	:	T11
Portable tank and bulk container special provisions (ADG)	:	TP2, TP27

Transport by sea

UN-No. (IMDG)	:	2924

Air transport

UN-No. (IATA)	:	2924

14.8. Hazchem or Emergency Action Code

Hazchem Code	:	* 3WE

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations

Australian Industrial Chemicals Introduction Scheme (AICIS)

Australian Inventory of Industrial Chemicals (AICIS Inventory) status	:	All the chemicals contained in this product are listed introductions

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

No additional information available

Australian Pesticides and Veterinary Medicines Authority (APVMA)

No additional information available

15.2. International agreements

No additional information available

SECTION 16: Other information

Revision date : 8/05/2025
Expiry date : 8/05/2030
Other information : None.
Prepared by : Nexreg Compliance Inc.
www.Nexreg.com

Classification	
Flam. Liq. 2	H225
Acute Tox. 3 (Oral)	H301
Acute Tox. 3 (Dermal)	H311
Acute Tox. 3 (Inhalation:vapour)	H331
Skin Corr. 1A	H314
Eye Dam. 1	H318
STOT SE 1	H370

Full text of H-statements	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
STOT SE 1	Specific target organ toxicity – single exposure, Category 1
H225	Highly flammable liquid and vapour
H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H331	Toxic if inhaled
H370	Causes damage to organs

Safety Data Sheet (SDS), Australia - Nexreg 2024