

# (-)-Δ9-THC-D3

# **Novachem Pty Ltd**

Version No: 2.3 Safety Data Sheet according to WHS and ADG requirements

Issue Date: 12/09/2018 Print Date: **12/09/2018** S.GHS.AUS.EN

# SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

ļ	Proc	duc	t Id	ent	III	er	
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Product name	(-)-Δ9-THC-D3	
Chemical Name	DELTA9-TETRAHYDROCANNABINOL-D3 DEA SCHEDULE I ITEM	
Synonyms	T-003	
Proper shipping name	ne METHANOL	
Other means of identification	Not Available	
CAS number	81586-39-2*	

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

Relevant identified uses Laboratory chemicals, Manufacture of substances

# Details of the supplier of the safety data sheet

Registered company name	Novachem Pty Ltd	
Address	25 Crissane Road, Heidelberg West Victoria 3081 Australia	
Telephone +61384151255		
Fax	+61386250088	
Website         www.novachem.com.au           Email         novachem@novachem.com.au		

# Emergency telephone number

Association / Organisation	Victorian Poisons Information Centre	
Emergency telephone numbers	13 11 26	
Other emergency telephone numbers	Not Available	

# **SECTION 2 HAZARDS IDENTIFICATION**

### Classification of the substance or mixture

Poisons Schedule	S9	
Classification <sup>[1]</sup>	Flammable Liquid Category 2, Acute Toxicity (Oral) Category 3, Acute Toxicity (Dermal) Category 3, Acute Toxicity (Inhalation) Category 3, Specific target organ toxicity - single exposure Category 1	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

# Label elements

Hazard pictogram(s)







SIGNAL WORD

# Hazard statement(s)

H225	Highly flammable liquid and vapour.	
H301	Toxic if swallowed.	
H311	Toxic in contact with skin.	
H331	Toxic if inhaled.	
H370	Causes damage to organs.	

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# Precautionary statement(s) Prevention

P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.	
P260 Do not breathe dust/fume/gas/mist/vapours/spray.		
P270 Do not eat, drink or smoke when using this product.		
P271 Use only outdoors or in a well-ventilated area.		

### Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.	
P307+P311	IF exposed: Call a POISON CENTER or doctor/physician.	
P330	P330 Rinse mouth.	
P363 Wash contaminated clothing before reuse.		

### Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	

# Precautionary statement(s) Disposal

Dispose of contents/container in accordance with local regulations.

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

### Substances

CAS No %[weight]		Name
67-56-1	99.99	methanol
81586-39-2*	586-39-2* 0.01 <u>1-trans-delta(sup 9)-tetrahydrocannabinol-D3</u>	

#### Mixtures

See section above for composition of Substances

# **SECTION 4 FIRST AID MEASURES**

# Description of first aid measures

Eye Contact	If this product comes in contact with the eyes:  Wash out immediately with fresh running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Seek medical attention without delay; if pain persists or recurs seek medical attention.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs:  ► Flush skin and hair with running water (and soap if available).  ► Seek medical attention in event of irritation.
Inhalation	<ul> <li>If furnes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> <li>If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.</li> </ul>

# Indication of any immediate medical attention and special treatment needed

For acute and short term repeated exposures to methanol:

- Toxicity results from accumulation of formaldehyde/formic acid.
- Clinical signs are usually limited to CNS, eyes and GI tract Severe metabolic acidosis may produce dyspnea and profound systemic effects which may become intractable. All symptomatic patients should have arterial pH measured. Evaluate airway, breathing and circulation.
- $\blacktriangleright \ \ \mbox{Stabilise obtunded patients by giving naloxone, glucose and thiamine. }$
- Decontaminate with Ipecac or lavage for patients presenting 2 hours post-ingestion. Charcoal does not absorb well; the usefulness of cathartic is not established.
- Forced diuresis is not effective; haemodialysis is recommended where peak methanol levels exceed 50 mg/dL (this correlates with serum bicarbonate levels below 18 meq/L).
- Ethanol, maintained at levels between 100 and 150 mg/dL, inhibits formation of toxic metabolites and may be indicated when peak methanol levels exceed 20 mg/dL. An intravenous solution of ethanol in D5W is optimal.
- Folate, as leucovorin, may increase the oxidative removal of formic acid. 4-methylpyrazole may be an effective adjunct in the treatment. 8. Phenytoin may be preferable to diazepam for controlling seizure.

[Ellenhorn Barceloux: Medical Toxicology]

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Determinant Index Sampling Time Comment B, NS 1. Methanol in urine 15 mg/l End of shift B, NS 80 mg/gm creatinine Before the shift at end of workweek 2. Formic acid in urine

B: Background levels occur in specimens collected from subjects **NOT** exposed.

NS: Non-specific determinant - observed following exposure to other materials.

# **SECTION 5 FIREFIGHTING MEASURES**

Fire Incompatibility

# **Extinguishing media**

Water may be an ineffective extinguishing media for methanol fires; static explosions are reported for aqueous solutions as dilute as 30%. Water may be used to cool containers.

- Alcohol stable foam.
- ▶ Dry chemical powder.
- ▶ BCF (where regulations permit).
- Carbon dioxide.

# Special hazards arising from the substrate or mixture

Advice for firefighters				
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> </ul>			
Fire/Explosion Hazard	Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat, flame and/or oxidisers. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition leading to violent rupture of containers. Combustion products include: carbon dioxide (CO2) formaldehyde			

▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

# **SECTION 6 ACCIDENTAL RELEASE MEASURES**

HAZCHEM

# Personal precautions, protective equipment and emergency procedures

•2WE

other pyrolysis products typical of burning organic material.

See section 8

## **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> </ul>
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear full body protective clothing with breathing apparatus.</li> </ul>

Personal Protective Equipment advice is contained in Section 8 of the SDS.

# **SECTION 7 HANDLING AND STORAGE**

### Precautions for safe handling

Safe handling	<ul> <li>Containers, even those that have been emptied, may contain explosive vapours.</li> <li>Do NOT cut, drill, grind, weld or perform similar operations on or near containers.</li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> </ul>
Other information	<ul> <li>Store in original containers in approved flame-proof area.</li> <li>No smoking, naked lights, heat or ignition sources.</li> <li>DO NOT store in pits, depressions, basements or areas where vapours may be trapped.</li> <li>Keep containers securely sealed.</li> </ul>

# Conditions for safe storage, including any incompatibilities

	<ul> <li>Packing as supplied by manufacturer.</li> </ul>
Suitable container	Plastic containers may only be used if approved for flammable liquid.
	<ul> <li>Check that containers are clearly labelled and free from leaks.</li> </ul>

▶ Glass container is suitable for laboratory quantities

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#### For low viscosity materials (i): Drums and jerry cans must be of the non-removable head type. (ii): Where a can is to be used as an inner package, the can must have a screwed enclosure For materials with a viscosity of at least 2680 cSt. (23 deg. C) ► For manufactured product having a viscosity of at least 250 cSt. Methanol reacts violently with strong oxidisers, acetyl bromide, alkyl aluminium salts, beryllium dihydride, bromine, chromic acid, 1-chloro-3,3-difluoro-2-methoxycyclopropene, cyanuric chloride, diethylzinc, isophthaloyl chloride, nitric acid, perchloric acid, potassium-tert-butoxide, potassium sulfur diimide, Raney nickel catalysts, 2,4,6-trichlorotriazine, triethylaluminium, 1,3,3-trifluoro-2-methoxycyclopropene F is incompatible with strong acids, strong caustics, alkaline earth and alkali metals, aliphatic amines, acetaldehyde, benzoyl peroxide, 1,3-bis(din-cyclopentadienyl iron)-2-propen-1-one, calcium carbide, chloroform, chromic anhydride, chromium trioxide, dialkylzinc, dichlorine oxide, dichloromethane, ethylene oxide, hypochlorous acid, isocyanates, isopropyl chlorocarbonate, lithium tetrahydroaluminate, magnesium, methyl azide, nitrogen dioxide, palladium, pentafluoroguanidine, perchloryl fluoride, phosphorus pentasulfide, phosphorus trioxide, potassium, tangerine oil, triisobutylaluminium mixtures with lead perchlorate, sodium hypochlorite are explosive may react with metallic aluminium at high temperatures Storage incompatibility slowly corrodes lead and aluminium

- may generate electrostatic charges, due to low conductivity, on flow or agitation
- ▶ attacks some plastics, rubber and coatings

Static induced flash fires have happened when filling plastic containers with methanol / water solutions with as low as 30% methanol content Alcohols

- are incompatible with strong acids, acid chlorides, acid anhydrides, oxidising and reducing agents.
- reacts, possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen
- react with strong acids, strong caustics, aliphatic amines, isocyanates, acetaldehyde, benzoyl peroxide, chromic acid, chromium oxide, dialkylzincs, dichlorine oxide, ethylene oxide, hypochlorous acid, isopropyl chlorocarbonate, lithium tetrahydroaluminate, nitrogen dioxide, pentafluoroguanidine, phosphorus halides, phosphorus pentasulfide, tangerine oil, triethylaluminium, triisobutylaluminium

TEEL-2

TEEL-3

- ▶ should not be heated above 49 deg. C. when in contact with aluminium equipment
- ► Avoid storage with reducing agents.

### **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

Material name

#### Control parameters

### OCCUPATIONAL EXPOSURE LIMITS (OEL)

# INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	methanol	Methyl alcohol	200 ppm / 262 mg/m3	328 mg/m3 / 250 ppm	Not Available	Not Available
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#### **EMERGENCY LIMITS**

Ingredient

mgroulon.	material name		1222		ILLL		
methanol	Methyl alcohol; (Methanol) Not Available			Not Available	Not Available		
Ingredient	Original IDLH			Revised IDLH			
methanol	6,000 ppm			Not Available			
1-trans-delta(sup 9)-tetrahydrocannabinol-D3	Not Available			Not Available			

### **Exposure controls**

# Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. Appropriate engineering The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. controls Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Personal protection Safety glasses with side shields Chemical goggles Eye and face protection Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Skin protection See Hand protection below

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be

# Hands/feet protection

checked prior to the application The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care.

- ▶ Wear chemical protective gloves, e.g. PVC.
- ▶ Wear safety footwear or safety gumboots, e.g. Rubber

# **Body protection**

## See Other protection below

### Other protection

- Overalls PVC Apron.
- PVC protective suit may be required if exposure severe.
- ► Eyewash unit.

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- ▶ Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity.
- For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets).
- Non sparking safety or conductive footwear should be considered. Conductive footwear describes a boot or shoe with a sole made from a conductive compound chemically bound to the bottom components, for permanent control to electrically ground the foot an shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds.

#### Recommended material(s)

### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

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Material	СРІ
BUTYL	A
BUTYL/NEOPRENE	Α
PE/EVAL/PE	Α
PVDC/PE/PVDC	Α
SARANEX-23 2-PLY	A
SARANEX-23	Α
TEFLON	Α
VITON/NEOPRENE	A
NEOPRENE	В
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
PVA	С
PVC	С

<sup>\*</sup> CPI - Chemwatch Performance Index

A: Best Selection

**NOTE**: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

### Respiratory protection

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

# **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

### Information on basic physical and chemical properties

Appearance	Not Available					
Physical state	Liquid	Relative density (Water = 1)	0.79 @ 20 C			
Odour	Not Available	Partition coefficient n-octanol / water	Not Available			
Odour threshold	Not Available	Auto-ignition temperature (°C)	385- (464 ICI)			
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available			
Melting point / freezing point (°C)	-97.8	Viscosity (cSt)	0.59			
Initial boiling point and boiling range (°C)	64-65	Molecular weight (g/mol)	32.04			
Flash point (°C)	11-12(16.1 OC)	Taste	Not Available			
Evaporation rate	2.1 BuAc=1 BuAC = 1	Explosive properties	Not Available			
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available			
Upper Explosive Limit (%)	36	Surface Tension (dyn/cm or mN/m)	Not Available			
Lower Explosive Limit (%)	6	Volatile Component (%vol)	ca 100 @ 20 C			
Vapour pressure (kPa)	12.26 @ 20 C	Gas group	Not Available			
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Neutral			
Vapour density (Air = 1)	1.1	VOC g/L	Not Available			

# **SECTION 10 STABILITY AND REACTIVITY**

Reactivity

See section 7

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

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Chemical stability	<ul> <li>Static induced flash fires have happened when filling plastic containers with methanol / water solutions with as low as 30% methanol content.</li> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# **SECTION 11 TOXICOLOGICAL INFORMATION**

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Serious Eye Damage/Irritation

Respiratory or Skin

sensitisation

Mutagenicity

Information	on	toxicolo	gical	effects

Information on toxicological	effects					
Inhaled	The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Nevertheless inhalation of vapours, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally, distress.  Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual.  Minor but regular methanol exposures may effect the central nervous system, optic nerves and retinae. Symptoms may be delayed, with headache, fatigue, nausea, blurring of vision and double vision. Continued or severe exposures may cause damage to optic nerves, which may become severe with permanent visual impairment even blindness resulting.  WARNING: Methanol is only slowly eliminated from the body and should be regarded as a cumulative poison which cannot be made non-harmful [CCINFO]					
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual.  Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733)  Methanol may produce a burning or painful sensation in the mouth, throat, chest, and stomach. This may be accompanied by nausea, vomiting, headache, dizziness, shortness of breath, weakness, fatigue, leg cramps, restlessness, confusion, drunken behaviour, visual disturbance, drowsiness, coma and death.					
Skin Contact	The material is not thought to produce adverse health effects or skin irritation Nevertheless, good hygiene practice requires that exposure be kept to a minir Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, no use of the material and ensure that any external damage is suitably protected.	num and that suitable	le gloves be used in an occupational setting.			
Еуе	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn). 510meth					
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.  Long-term exposure to methanol vapour, at concentrations exceeding 3000 ppm, may produce cumulative effects characterised by gastrointestinal disturbances (nausea, vomiting), headache, ringing in the ears, insomnia, trembling, unsteady gait, vertigo, conjunctivitis and clouded or double vision.  Liver and/or kidney injury may also result.					
(-)-Δ9-THC-D3	TOXICITY	IRRITATION				
(-)-Д9-1ПС-D3	Not Available	Not Available				
	TOXICITY	IRRITATIO				
methanol	Dermal (rabbit) LD50: 15800 mg/kg <sup>[2]</sup>	Eye (rabbit	): 100 mg/24h-moderate			
	Inhalation (rat) LC50: 63926.976 mg/l/4h <sup>[2]</sup>	Eye (rabbit	): 40 mg-moderate			
	Oral (rat) LD50: 5600 mg/kg <sup>[2]</sup>	Skin (rabbit	)): 20 mg/24 h-moderate			
1-trans-delta(sup						
9)-tetrahydrocannabinol-D3	Not Available Not Available					
Legend:	Legend:  1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances					
METHANOL	The material may cause skin irritation after prolonged or repeated exposure ar scaling and thickening of the skin.	nd may produce on o	contact skin redness, swelling, the production of vesicles,			
Acute Toxicity	<b>~</b>	Carcinogenicity	0			
Skin Irritation/Corrosion	0	Reproductivity	0			

**Aspiration Hazard** 

STOT - Repeated Exposure

STOT - Single Exposure

X − Data available but does not fill the criteria for classification
 ✓ − Data available to make classification

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# **SECTION 12 ECOLOGICAL INFORMATION**

#### Toxicity

(-)-Δ9-THC-D3	ENDPOINT TEST DURATION (HR		TEST DURATION (HR)	SPECIES		VALUE		SOURCE	
(-)- <del>7</del> 9-1HC-D3	Not Available	Available Not Available		Not Available		Not Avail	Available Not A		vailable
	ENDPOINT	TE	ST DURATION (HR)	SPECIE	ES		VALUE		SOURCE
	LC50	96		Fish	Fish		>100mg/L		4
methanol	EC50	48		Crustac	Crustacea		>10000mg/L		4
	EC50	96		Algae or other aquatic plants		<10000mg/L		4	
	BCF	24		Algae or other aquatic plants		0.05mg/L		4	
	EC0 168		Algae or other aquatic plants			=530mg/L		1	
	NOEC	IOEC 72 Crustacea		0.1mg/L		4			
1-trans-delta(sup	ENDPOINT	TEST DURATION (HR)			SPECIES	VALUE	VALUE S		RCE
)-tetrahydrocannabinol-D3	Not Available		Not Available		Not Available	Not Avail	able	Not Av	vailable

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

For Methanol: Log Kow: -0.82 to -0.66; Koc: 1; Henry s Law Constant: 4.55x10-6 atm-cu m/mole; Vapor Pressure: 127 mm Hg; BCF: < 10.

Atmospheric Fate: Methanol is expected to exist solely as a vapor in the ambient atmosphere. Vapor-phase methanol is broken down in the atmosphere by reactions with hydroxyl radicals; the half-life for this reaction in air is estimated to be 17 days.

Terrestrial Fate: Methanol is expected to have very high mobility in soil.

DO NOT discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
methanol	LOW	LOW
1-trans-delta(sup 9)-tetrahydrocannabinol-D3	HIGH	HIGH

## Bioaccumulative potential

Ingredient	Bioaccumulation
methanol	LOW (BCF = 10)
1-trans-delta(sup 9)-tetrahydrocannabinol-D3	HIGH (LogKOW = 6.5714)

# Mobility in soil

Ingredient	Mobility
methanol	HIGH (KOC = 1)
1-trans-delta(sup 9)-tetrahydrocannabinol-D3	LOW (KOC = 611800)

# **SECTION 13 DISPOSAL CONSIDERATIONS**

### Waste treatment methods

Product / Packaging disposal

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- ▶ Reduction
- ► Reuse
- Recycling
- Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains
- ▶ It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- ▶ Where in doubt contact the responsible authority.
- ▶ Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material).
- ► Decontaminate empty containers.

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# **SECTION 14 TRANSPORT INFORMATION**

# **Labels Required**



Marine Pollutant
HAZCHEM

NO •2WE

# Land transport (ADG)

UN number	1230
UN proper shipping name	METHANOL
Transport hazard class(es)	Class 3 Subrisk 6.1
Packing group	Ш
Environmental hazard	Not Applicable
Special precautions for user	Special provisions 279 Limited quantity 1 L

# Air transport (ICAO-IATA / DGR)

UN number	1230			
UN proper shipping name	Methanol			
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	3 6.1 3L		
Packing group	II .			
Environmental hazard	Not Applicable			
Special precautions for user	Special provisions  Cargo Only Packing Instructions  Cargo Only Maximum Qty / Pack  Passenger and Cargo Packing Instructions  Passenger and Cargo Maximum Qty / Pack  Passenger and Cargo Limited Quantity Packing Instructions  Passenger and Cargo Limited Maximum Qty / Pack		A113 364 60 L 352 1 L Y341 1 L	
	i accornger and cargo L	armod Maximum sety / 1 dok		

# Sea transport (IMDG-Code / GGVSee)

UN number	1230		
UN proper shipping name	METHANOL		
Transport hazard class(es)	IMDG Class 3 IMDG Subrisk 6.1		
Packing group			
Environmental hazard	Not Applicable		
Special precautions for user	EMS Number F-E , S-D Special provisions 279 Limited Quantities 1 L		

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

# **SECTION 15 REGULATORY INFORMATION**

 ${\bf Safety, \, health \, and \, environmental \, regulations \, \textit{I} \, legislation \, specific \, for \, the \, substance \, or \, mixture}$ 

METHANOL(67-56-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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(-)-Δ9-THC-D3

Australia Exposure Standards

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

F (Part 3)

Australia Inventory of Chemical Substances (AICS)

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

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Part 2)

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

#### 1-TRANS-DELTA(SUP 9)-TETRAHYDROCANNABINOL-D3(81586-39-2\*) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Not Applicable

### **National Inventory Status**

National Inventory	Status	
Australia - AICS	N (1-trans-delta(sup 9)-tetrahydrocannabinol-D3)	
Canada - DSL	N (1-trans-delta(sup 9)-tetrahydrocannabinol-D3)	
Canada - NDSL	N (methanol; 1-trans-delta(sup 9)-tetrahydrocannabinol-D3)	
China - IECSC	N (1-trans-delta(sup 9)-tetrahydrocannabinol-D3)	
Europe - EINEC / ELINCS / NLP	N (1-trans-delta(sup 9)-tetrahydrocannabinol-D3)	
Japan - ENCS	N (1-trans-delta(sup 9)-tetrahydrocannabinol-D3)	
Korea - KECI	N (1-trans-delta(sup 9)-tetrahydrocannabinol-D3)	
New Zealand - NZIoC	N (1-trans-delta(sup 9)-tetrahydrocannabinol-D3)	
Philippines - PICCS	N (1-trans-delta(sup 9)-tetrahydrocannabinol-D3)	
USA - TSCA	N (1-trans-delta(sup 9)-tetrahydrocannabinol-D3)	
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)	

### **SECTION 16 OTHER INFORMATION**

Revision Date	12/09/2018
Initial Date	19/10/2017

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

# **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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