

Novachem Pty Ltd

Version No: 1.2

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 4

Issue Date: 27/02/2018 Print Date: 27/02/2018 S.GHS.AUS.EN

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

Product Identifier

Product name	(±)-MDEA [(±)-3,4-Methylenedioxyethylamphetamine]
Chemical Name	3,4-methylenedioxy-N-ethylamphetamine
Synonyms	M-065
Proper shipping name	METHANOL
Chemical formula	C12-H17-N-O2
Other means of identification	Not Available
CAS number	82801-81-8*

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

Relevant identified uses	Laboratory chemicals, Synthesis of substances
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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	S6
Classification ^[1]	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 EC Directive 1272/2008 - Annex VI

Label elements

Hazard pictogram(s)	
SIGNAL WORD	DANGER

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.

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

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P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.				
P307+P311	IF exposed: Call a POISON CENTER or doctor/physician.				
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

P501

Substances

CAS No	%[weight]	Name		
67-56-1	99.9	methanol		
82801-81-8	0.1	3,4-methylenedioxy-N-ethylamphetamine		

Mixtures

See section above for composition of Substances

SECTION 4 FIRST AID MEASURES

Description	of	first	aid	measures
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Eye Contact	If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with 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. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If skin or hair contact occurs: Quickly but gently, wipe material off skin with a dry, clean cloth. Immediately remove all contaminated clothing, including footwear. Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. Transport to hospital, or doctor.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. 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. Transport to hospital, or doctor, without delay.
Ingestion	 IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice, contact a Poisons Information Centre or a doctor. Urgent hospital treatment is likely to be needed. In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition. If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist. If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS. Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise: INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. NOTE: Wear a protective glove when inducing vomiting by mechanical means. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

Indication of any immediate medical attention and special treatment needed

In the use of psychoactive substances, four recognised chronic reactions have been reported

Prolonged psychotic reactions

- Depression sufficiently severe to be life-threatening
- Flashbacks
- Exacerbation of pre-existing psychiatric illness

Some persons who have experienced many psychedelic trips, especially those who have had acute adverse reactions, develop what appears to be serious long-term personality disruption.

These prolonged psychotic reactions have similarities to schizophrenic reactions and appear to occur most often in persons with pre-existing psychological difficulties - primarily pre-psychotic or psychotic personalities.

Psychedelic-induced personality disorders can be severe and prolonged.

Appropriate treatment often requires antipsychotic medication (antipsychotics, neuroleptics, major tranquillisers) and residential care in a mental health facility.

In certain cases, psychedelic-induced chronic psychological problems lead to complicated patterns of polydrug abuse that requires additional treatment approaches.

Note:

Antipsychotics are associated with a range of side effects. It is well-recognized that many people stop taking them (around two-thirds even in controlled drug trials) due in part to adverse effects. Notable and relatively common adverse effects of antipsychotics include extrapyramidal symptoms (which involve motor control) and hyperprolactinaemia primarily in typical's and weight gain and metabolic abnormalities mostly in atypicals. Temporary withdrawal symptoms including insomnia, agitation, psychosis, and motor disorders may occur during dosage reduction of antipsychotics, and can be mistaken for the return of the underlying condition.

Many psychoactives are also monoamine oxidase inhibitors (MAOIs):

Special care should be taken with any drug therapy in view of the many hazards of monoamine oxidase inhibitor interactions. In particular metaraminol and other sympathomimetic agents are not suitable for the treatment of hypotension, which should be managed with intravenous fluids and, in severe shock, intravenous hydrocortisone

The management of overdose with amphetamines generally involves supportive and symptomatic therapy. Sedation is usually sufficient. Forced acid diuresis has been advocated to increase amphetamine excretion but should only be considered in severely poisoned patients and requires close supervision and monitoring. MARTINDALE: The Extra Pharmacopoeia, 27th Ed. Amphetamines may be monoamine oxidase inhibitors (MAOIs). Monoamine oxidase inhibitors produce postural hypotension, dizziness, drowsiness, weakness and fatigue, dryness of the mouth, constipation and other gastrointestinal disturbances (including nausea and vomiting) and oedema. Other symptoms may include agitation and tremors, insomnia and restless sleep, blurred vision, difficulty in urinating, convulsions, skin rashes, leucopenia, sexual disturbances and weight gain with inappropriate appetite. Psychotic episodes may be characterised by hypomanic behavior, confusion and hallucinations. Jaundice has been reported and infrequently this may lead to fatal progressive hepatocellular necrosis.

Treatment and Management.

A specific antidote does not exist for acute stimulant intoxication. Activated charcoal should be prescribed in a case of acute overdose. Otherwise the treatment should target specific signs and symptoms such as hypertension, agitation, seizures, and hyperthermia. Rapid supportive treatment may reduce mortality.

Supportive therapy

Acute intoxication usually presents with increased sensitivity to sensorial stimuli and paranoia. As such, decreasing the patient's level of stimulation (keep voice low, dim lights, minimise touch) and working with the patient's paranoid state (reduce eye contact, respect personal space, do not approach from behind) is important.

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination).

Decontamination with gastric lavage may be appropriate in cases of recent ingestion.

Monitor vital signs and hydrate with intravenous fluids.

Withdrawal related insomnia may be treated with trazodone (75-200 mg), hydroxyzine (25-50 mg), or diphenhydramine (50-100 mg) at bedtime.

Benzodiazepines should be avoided unless the patient is also in detox from alcohol/benzodiazepines/opiates.

Neuroleptics may be used for the symptomatic treatment of psychosis.

Physical restraints may be required in certain cases.

Common withdrawal symptoms may include dysphoria, anxiety, and irritability, decreased energy (manifested as reported fatigue, psychomotor retardation and hypersomnia), hyperphagia, decreased concentration, and paranoia. The withdrawal symptoms are uncomfortable but not life threatening; consequently, no current recommendations for a stimulant-detoxification regimen are available.

Stimulant withdrawal dysphoria is common and does not in itself represent an indication for an antidepressant. However, a thorough assessment (including consideration of an antidepressant) is recommended for persistent (longer than a week) depressive symptoms at a level of moderate or severe or associated with suicidal ideation/attempts. Medscape

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.
- Stabilise obtunded patients by giving naloxone, glucose and thiamine.
- Decontaminate with locac 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]

BIOLOGICAL EXPOSURE INDEX - BEI

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

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

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

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Fire Incompatibility	► Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
Advice for firefighters	
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area.
Fire/Explosion Hazard	 Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include: carbon dioxide (CO2) formaldehyde other pyrolysis products typical of burning organic material. May emit poisonous fumes.
HAZCHEM	•2WE

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

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

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps.
Other information	 NOTE: Special security requirements may be mandated under Federal/State Regulation(s). Store in original containers. Store in vault fitted with warning devices or detectors recommended by various Federal/State authorities. Store in vault used only for the purpose of storage of drugs of addiction.

Conditions for safe storage, including any incompatibilities

Suitable container	 Packaging as recommended by manufacturer. Check that containers are clearly labelled. Tamper-proof containers. Polyethylene or polypropylene containers. Glass container is suitable for laboratory quantities For low viscosity materials Drums and jerricans must be of the non-removable head type. 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) and solids (between 15 C deg. and 40 deg C.): Removable head packaging; Cans with friction closures and low pressure tubes and cartridges may be used.
Storage incompatibility	 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 is incompatible with strong acids, strong acustics, alkaline earth and alkali metals, aliphatic amines, acetaldehyde, benzoyl peroxide, 1,3-bis(din-n-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 slowly corrodes lead and aluminium may generate electrostatic charges, due to low conductivity, on flow or agitation
	Continued

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, triisobutylaluminum
 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

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DAT	A
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INGREDIENT DATA									
Source	Ingredient	Material name TWA		STEL F		Peak		Notes	
Australia Exposure Standards	methanol	Methyl alcohol 262 mg/m3 / 200 ppm		328 mg/m3 / 250 ppm		Not Available		Not Available	
EMERGENCY LIMITS									
Ingredient	Material name		TEEL-1 TEEL-2		TEEL-3				
methanol	Methyl alcohol; (Methanol)		Not Available Not Available		Not Available				
Ingredient	Original IDLH	Original IDLH			Revised IDLH				
methanol	6000 ppm	6000 ppm			Not Available				
3,4-methylenedioxy- N-ethylamphetamine	Not Available	Not Available			Not Available				

Exposure controls

Appropriate engineering controls	 For potent pharmacological agents: Solutions Handling: Solutions can be handled outside a containment system or without local exhaust ventilation during procedures with no potential for aerosolisation. If the procedures have a potential for aerosolisation, an air-purifying respirator is to be worn by all personnel in the immediate area. Solutions used for procedures where aerosolisation may occur (e.g., vortexing, pumping) are to be handled within a containment system or with local exhaust ventilation. In situations where this is not feasible (may include animal dosing), an air-purifying respirator is to be worn by all personnel in the immediate area. Enclosed local exhaust ventilation is required at points of dust, fume or vapour generation. HEPA terminated local exhaust ventilation should be considered at point of generation of dust, fumes or vapours. Barrier protection or laminar flow cabinets should be considered for laboratory scale handling. A fume hood or vented balance enclosure is recommended for weighing/ transferring quantities exceeding 500 mg.
Personal protection	
Eye and face protection	 Chemical protective goggles with full seal. Shielded mask (gas-type). 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.
Skin protection	See Hand protection below
Hands/feet protection	 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 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. Rubber gloves (nitrile or low-protein, powder-free latex, latex/ nitrile). Employees allergic to latex gloves should use nitrile gloves in preference. Double gloving should be considered.
	► PVC gloves.
Body protection	
Body protection Other protection	► PVC gloves.

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:

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

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(±)-MDEA [(±)-3,4-Methylenedioxyethylamphetamine]

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

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

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

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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties Appearance Not Available

appropriate.

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	A-AUS / Class	-
		1	
up to 50	1000	-	A-AUS / Class 1
up to 50	5000	Airline *	-
up to 100	5000	-	A-2
up to 100	10000	-	A-3
100+		-	Airline**

* - Continuous Flow

** - Continuous-flow or positive pressure demand.

 $\begin{array}{l} \mbox{A(All classes) = Organic vapours, B AUS or B1 = Acid gases, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 deg C) \\ \end{array}$

Physical state	Liquid	Relative density (Water = 1)		
Odour	Not Available	Partition coefficient n-octanol / water	Not Available	
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available	
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available	
Melting point / freezing point (°C)	Not Applicable	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 (%)	31-36.5	Surface Tension (dyn/cm or mN/m)	Not Available	
Lower Explosive Limit (%)	5.5-6.0	Volatile Component (%vol)	ca 100 @ 20 C	
Vapour pressure (kPa)	Not Available	Gas group	Not Available	
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Neutral	
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available	

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	 Static induced flash fires have happened when filling plastic containers with methanol / water solutions with as low as 30% methanol content. Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
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

Information on toxicological effects

Inhaled	There is strong evidence to suggest that this material can cause, if inhaled once, very serious, irreversible damage of organs. The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. 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 [<i>CCINFO</i>] Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may produce toxic effects.				
Ingestion	 Toxic effects may result from the accidental ingestion of the material; animal experiments indicate that ingestion of less than 40 gram may be fatal or may produce serious damage to the health of the individual. Psychedelic states are a group of experiences including changed perception such as hallucinations, synaesthesia, altered awareness or focused consciousness, change in thought patterns, trance or hypotic states and mystical states. This can lead to changes in self-identity and cause feelings of revelation, enlightenment, confusion and psychosis. Psychedelic states may be caused by meditation, sensory stimulation or deprivation, and, most commonly, by the use of psychedelic substances. When used for spiritual purposes they are called entheogens. Phenethylamines produce effects similar to amphetamines. They excite the nervous system, causing shortness of breath, coughing, spasm of the bronchi and spasm of the throat (larynx). Muscular involvement may produce symptoms ranging from twitching to spasticity or seizures. Headache, dizziness and confusion may also result, as can a very high fever or a sensation of warmth. Other symptoms may include nausea, vomiting, diarrhea and difficulty in urination. Phenethylamines are structurally similar to amphetamines. Side effects of amphetamine treatment are associated with overstimulation of the central nervous system and include sleeplessness, nervousness, restlessness, initiability and a feeling of well-being, followed by fatigue and depression. There may be dry mouth, poor appetite, abdominal cramps and other gastrointestinal disturbances, headache, dizziness, thermor, sweating, fast heartbeat, palpitations, increased blood pressure, difficulty urinating, altered sex drive and impotence. Psychotic reactions and muscle damage (associated with kidney complications) have also occurred. Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious				
Skin Contact	Skin contact with the material may produce toxic effects; systemic effects may result following absorption. The material is not thought to be a skin irritant (as classified by EC Directives using animal models). Temporary discomfort, however, may result from prolonged dermal exposures. 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, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. There is strong evidence to suggest that this material, on a single contact with skin, can cause serious, irreversible damage of organs.				
Eye	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 use of amphetamines can lead to tolerance developing to some of its effects, leading to an urge to increase dose and habituation. However, amphetamines generally do not cause physical dependence. 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. Chronic exposure to phenethylamines excite the central nervous system and induce tolerance; in extreme cases they produce amphetamine-like responses including personality changes, compulsive and stereotyped behaviour and may induce psychosis with auditory and visual hallucinations and paranoid				
	delusions.				
	ΤΟΧΙCITY	IRRITATION			
(±)-MDEA [(±)-3,4- Methylenedioxyethylamphetamine]	TOXICITY Not Available	IRRITATION Not Available			
	Not Available	Not Available			
	Not Available TOXICITY	Not Available			
., .,	Not Available TOXICITY Dermal (rabbit) LD50: 15800 mg/kg ^[2]	IRRITATION Eye (rabbit): 100 mg/24h-moderate			
Methylenedioxyethylamphetamine]	Not Available TOXICITY Dermal (rabbit) LD50: 15800 mg/kg ^[2] Inhalation (rat) LC50: 63926.976 mg/l/4h ^[2]	Not Available IRRITATION Eye (rabbit): 100 mg/24h-moderate Eye (rabbit): 40 mg-moderate			
Methylenedioxyethylamphetamine]	Not Available TOXICITY Dermal (rabbit) LD50: 15800 mg/kg ^[2]	IRRITATION Eye (rabbit): 100 mg/24h-moderate			
Methylenedioxyethylamphetamine] methanol	Not Available TOXICITY Dermal (rabbit) LD50: 15800 mg/kg ^[2] Inhalation (rat) LC50: 63926.976 mg/l/4h ^[2] Oral (rat) LD50: 5600 mg/kg ^[2]	IRRITATION Eye (rabbit): 100 mg/24h-moderate Eye (rabbit): 40 mg-moderate Skin (rabbit): 20 mg/24 h-moderate			
Vethylenedioxyethylamphetamine] methanol 3,4-methylenedioxy-	Not Available TOXICITY Dermal (rabbit) LD50: 15800 mg/kg ^[2] Inhalation (rat) LC50: 63926.976 mg//4h ^[2] Oral (rat) LD50: 5600 mg/kg ^[2] TOXICITY	IRRITATION Eye (rabbit): 100 mg/24h-moderate Eye (rabbit): 40 mg-moderate Skin (rabbit): 20 mg/24 h-moderate			
Methylenedioxyethylamphetamine] methanol	Not Available TOXICITY Dermal (rabbit) LD50: 15800 mg/kg ^[2] Inhalation (rat) LC50: 63926.976 mg/l/4h ^[2] Oral (rat) LD50: 5600 mg/kg ^[2]	IRRITATION Eye (rabbit): 100 mg/24h-moderate Eye (rabbit): 40 mg-moderate Skin (rabbit): 20 mg/24 h-moderate			
Methylenedioxyethylamphetamine] methanol 3,4-methylenedioxy-	Not Available TOXICITY Dermal (rabbit) LD50: 15800 mg/kg ^[2] Inhalation (rat) LC50: 63926.976 mg//4h ^[2] Oral (rat) LD50: 5600 mg/kg ^[2] TOXICITY	Not Available IRRITATION Eye (rabbit): 100 mg/24h-moderate Eye (rabbit): 40 mg-moderate Skin (rabbit): 20 mg/24 h-moderate Skin (rabbit): 20 mg/24 h-moderate IRRITATION Not Available 2.* Value obtained from manufacturer's SDS. Unless otherwise specified			
Methylenedioxyethylamphetamine] methanol 3,4-methylenedioxy- N-ethylamphetamine	Not Available TOXICITY Dermal (rabbit) LD50: 15800 mg/kg ^[2] Inhalation (rat) LC50: 63926.976 mg/l/4h ^[2] Oral (rat) LD50: 5600 mg/kg ^[2] TOXICITY Not Available 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 3	IRRITATION Eye (rabbit): 100 mg/24h-moderate Eye (rabbit): 40 mg-moderate Skin (rabbit): 20 mg/24 h-moderate IRRITATION Not Available 2.* Value obtained from manufacturer's SDS. Unless otherwise specified			

3,4-METHYLENEDIOXY- N-ETHYLAMPHETAMINE	Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. General anaesthesia, convulsions, acute pulmonary oedema recorded.			
Acute Toxicity	×	Carcinogenicity	\otimes	
Skin Irritation/Corrosion	\odot	Reproductivity	0	
Serious Eye Damage/Irritation	\otimes	STOT - Single Exposure	¥	
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0	
Mutagenicity	0	Aspiration Hazard	0	
		✓ - L	Data available but does not fill the criteria for classification Data available to make classification Data Not Available to make classification	

SECTION 12 ECOLOGICAL INFORMATION

(±)-MDEA [(±)-3,4- Methylenedioxyethylamphetamine]	ENDPOINT		TEST DURATION (HR)		SPECIES	VALUE		SOURCE
	Not Available		Not Available		Not Available	Not Available		Not Available
							1	
	ENDPOINT	TEST DURATION (HR)		SPECIE	SPECIES		VALUE	SOURCE
	LC50	96		Fish	Fish		>100mg/L	4
	EC50	48		Crustacea		>10000mg/L	4	
methanol	EC50	96		Algae or other aquatic plants		<10000mg/L	4	
	BCF	24		Algae c	Algae or other aquatic plants		0.05mg/L	4
	EC0	168		Algae c	Algae or other aquatic plants		=530mg/L	1
	NOEC	72		Crustad	Crustacea		0.1mg/L	4
3,4-methylenedioxy-	ENDPOINT	Т	EST DURATION (HR)		SPECIES	VALUE		SOURCE
N-ethylamphetamine	Not Available	N	ot Available		Not Available	Not Avai	lable	Not Available

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 I 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

Bioaccumulative potential

Ingredient	Bioaccumulation
methanol	LOW (BCF = 10)

Mobility in soil

Ingredient	Mobility
methanol	HIGH (KOC = 1)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal
 Containers may still present a chemical hazard/ danger when empty.
 Return to supplier for reuse/ recycling if possible.
 Otherwise:

 If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
 Where possible retain label warnings and SDS and observe all notices pertaining to the product.

Valuable substance, hold all residues for recovery. Disposal of the material must be carried out in accordance with the requirements of the relevant Federal/State Act(s) or Code(s) regulating the disposal of Drugs of Addiction.
 Consult manufacturer/supplier for recycling options.
 Decontaminate empty containers with water; incinerate plastic bags.
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.

SECTION 14 TRANSPORT INFORMATION

HAZCHEM

•2WE

Labels Required

Marine Pollutant	NO

Land transport (ADG)

UN number	1230
UN proper shipping name	METHANOL
Transport hazard class(es)	Class3Subrisk6.1
Packing group	II.
Environmental hazard	Not Applicable
Special precautions for user	Special provisions279Limited quantity1 L

Air transport (ICAO-IATA / DGR)

Sea transport (IMDG-Code / GGVSee)

UN number	1230
UN proper shipping name	METHANOL
Transport hazard class(es)	IMDG Class3IMDG Subrisk6.1

Packing group	Ш		
Environmental hazard	Not Applicable		
Special precautions for user	EMS Number I Special provisions 2 Limited Quantities	3-D	

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

Not Applicable

SECTION 15 REGULATORY INFORMATION

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

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

Australia Hazardous Substances Information System - Consolidated Lists

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

3,4-METHYLENEDIOXY-N-ETHYLAMPHETAMINE(82801-81-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Not Applicable

National Inventory	Status	
Australia - AICS	N (3,4-methylenedioxy-N-ethylamphetamine)	
Canada - DSL	N (3,4-methylenedioxy-N-ethylamphetamine)	
Canada - NDSL	N (methanol; 3,4-methylenedioxy-N-ethylamphetamine)	
China - IECSC	N (3,4-methylenedioxy-N-ethylamphetamine)	
Europe - EINEC / ELINCS / NLP	N (3,4-methylenedioxy-N-ethylamphetamine)	
Japan - ENCS	N (3,4-methylenedioxy-N-ethylamphetamine)	
Korea - KECI	N (3,4-methylenedioxy-N-ethylamphetamine)	
New Zealand - NZIoC	N (3,4-methylenedioxy-N-ethylamphetamine)	
Philippines - PICCS	N (3,4-methylenedioxy-N-ethylamphetamine)	
USA - TSCA	N (3,4-methylenedioxy-N-ethylamphetamine)	
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

Other information

Ingredients with multiple cas numbers

Name	CAS No	
3,4-methylenedioxy- N-ethylamphetamine	82801-81-8, 14089-52-2, 116861-63-3	

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chernwatch 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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