

## Safety Data Sheet

according to WHS Regulations

Printing date 22.04.2022

Revision: 22.04.2022

### 1 Identification

**Product Name:** DZOLVE

**Other Means of Identification:** Substance

**Product Code:** DZLV100

**Recommended Use of the Chemical and Restriction on Use:** Dental tray adhesive thinner

**Details of Manufacturer or Importer:**

Australian Dental Manufacturing  
25 Billabong Street  
Kenmore Hills QLD 4069

**Phone Number:** 07 3878 1901

**Emergency telephone number:** National Poisons Information Centre: 13 11 26

### 2 Hazard(s) Identification

**Hazardous Nature:**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



Flame

Flammable Liquids 2 H225

Highly flammable liquid and vapour.



Eye Irrit. 2A

H319

Causes serious eye irritation.

STOT SE 3

H335-H336

May cause respiratory irritation. May cause drowsiness or dizziness.

**Signal Word** Danger

**Hazard Statements**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

**Precautionary Statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

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

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

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

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

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P312	Call a POISON CENTER/doctor if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use CO <sub>2</sub> , powder or water spray for extinction.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national regulations.

**Additional Information** AUH066 Repeated exposure may cause skin dryness or cracking.

### 3 Composition and Information on Ingredients

**Chemical Characterization: Mixtures****Description:** Mixture: consisting of the following components.**Hazardous Components:**

CAS: 78-93-3	Methyl ethyl ketone	>99.9%
	 Flammable Liquids 2, H225;  Eye Irrit. 2A, H319; STOT SE 3, H335-H336	

### 4 First Aid Measures

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

**Eye Contact:**

In case of eye contact, rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention.

**Ingestion:**

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

**Symptoms Caused by Exposure:**

Inhalation: May cause respiratory irritation. May cause drowsiness or dizziness. Inhalation of high concentrations may cause central nervous effects characterised by headache, unconsciousness, and coma.

Skin Contact: May cause skin irritation. May be absorbed through the skin.

Eye Contact: Causes serious eye irritation.

Ingestion: May cause gastrointestinal irritation, nausea, diarrhoea and vomiting. May affect the liver.

### 5 Fire Fighting Measures

**Suitable Extinguishing Media:**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use a solid water stream.

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include oxides of carbon and unidentified, toxic organic compounds.

Product is highly flammable. Vapours can travel considerable distances and flashback to its point of generation if it meets a source of ignition.

Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers.

Reaction with hydrogen peroxide + nitric acid forms heat and shock-sensitive explosive product. Mixture with 2-propanol will produce explosive peroxides during storage.

Minimise run-off from fire fighting entering drains or water courses.

HAZCHEM Code: •2YE

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**Special Protective Equipment and Precautions for Fire Fighters:**

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

### 6 Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal. Use only non-sparking tools.

### 7 Handling and Storage

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Take precautionary measures against static discharge. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Keep in original container tightly closed when not in use. Protect from heat, sparks, open flames and other sources of ignition. Keep away from strong oxidising agents, metals, acids and alkalis. Reaction with hydrogen peroxide + nitric acid forms heat and shock-sensitive explosive product. Mixture with 2-propanol will produce explosive peroxides during storage. Do not weld, cut or drill on full or empty containers. Handling equipment must be grounded to prevent sparking. In areas where explosion hazard exists workers should be required to wear non-sparking boots.

### 8 Exposure Controls and Personal Protection

**Exposure Standards:****CAS: 78-93-3 Methyl ethyl ketone**

WES	STEL: 890 mg/m <sup>3</sup> , 300 ppm TWA: 445 mg/m <sup>3</sup> , 150 ppm
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**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.

**Respiratory Protection:**

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

Chemically resistant gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of

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the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

**Eye and Face Protection:**

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

### 9 Physical and Chemical Properties

**Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Alcohol-like
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	No information available
<b>Melting point/freezing point:</b>	-86 °C
<b>Initial Boiling Point/Boiling Range:</b>	79 - 80 °C
<b>Flash Point:</b>	-4 °C
<b>Flammability:</b>	Product is highly flammable. Vapours may travel considerable distances to a source of ignition where they can ignite, flashback, or explode.
<b>Auto-ignition Temperature:</b>	>215 °C
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	1 Vol %
<b>Upper:</b>	6.7 Vol %
<b>Vapour Pressure at 20 °C:</b>	105 hPa
<b>Relative Density at 20 °C:</b>	0.7
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Insoluble
<b>Solubility in Solvents:</b>	Soluble in most organic solvents
<b>Partition Coefficient (n-octanol/water):</b>	No information available

### 10 Stability and Reactivity

**Possibility of Hazardous Reactions:**

Reaction with hydrogen peroxide + nitric acid forms heat and shock-sensitive explosive product. Mixture with 2-propanol will produce explosive peroxides during storage.

**Chemical Stability:** Stable at ambient temperature and under normal conditions of storage and use.

**Conditions to Avoid:** Heat, sparks, open flames and other sources of ignition.

**Incompatible Materials:**

Reactive with oxidizing agents, metals, acids, alkalis.

Incompatible with chloroform, copper, hydrogen peroxide, nitric acid, potassium t-butoxide, 2-propanol, chlorosulfonic acid, strong oxidizers, amines, ammonia, inorganic acids, isocyanates, caustics, pyridines. Vigorous reaction with chloroform + alkali.

**Hazardous Decomposition Products:** Oxides of carbon and unidentified, toxic organic compounds.

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## 11 Toxicological Information

**Toxicity:****LD50/LC50 Values:****CAS: 78-93-3 Methyl ethyl ketone**

Oral	LD50	3,300 mg/kg (rat)
	LD50	5,000 mg/kg (rabbit)

**Acute Health Effects****Inhalation:**

May cause respiratory irritation. May cause drowsiness or dizziness. Inhalation of high concentrations may cause central nervous effects characterised by headache, unconsciousness, and coma.

**Skin:** May cause skin irritation. May be absorbed through the skin.

**Eye:** Causes serious eye irritation.

**Ingestion:** May cause gastrointestinal irritation, nausea, diarrhoea and vomiting. May affect the liver.

**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.

**Serious Eye Damage / Irritation:** Causes serious eye irritation.

**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.

**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.

**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.

**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Single Exposure:**

May cause respiratory irritation. May cause drowsiness or dizziness.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.

**Chronic Health Effects:**

Repeated or prolonged skin exposure may cause de-fatting of the skin, dermatitis and possible sensitisation. Inhalation of very high vapour concentrations or prolonged exposure may cause CNS effects, kidney and liver damage.

**Existing Conditions Aggravated by Exposure:** No information available

## 12 Ecological Information

**Ecotoxicity:****Aquatic toxicity:**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**CAS: 78-93-3 Methyl ethyl ketone**

EC50/48 h	308 mg/l (crustacea)
EC50/72 h	1,972 mg/l (algae)
LC50/96 h	2,993 mg/l (fish)

**Persistence and Degradability:** No data available on finished product.

**Bioaccumulative Potential:** No data available on finished product.

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**Mobility in Soil:** No data available on finished product.**Other adverse effects:** No further relevant information available.

## 13 Disposal Considerations

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

## 14 Transport Information

<b>UN Number</b> ADG, IMDG, IATA	UN1193
<b>Proper Shipping Name</b> ADG, IMDG, IATA	ETHYL METHYL KETONE (METHYL ETHYL KETONE)
<b>Dangerous Goods Class</b> ADG Class:	3
<b>Packing Group:</b> ADG, IMDG, IATA	II
<b>Marine pollutant:</b>	
<b>EMS Number:</b>	F-E,S-D
<b>Hazchem Code:</b>	•2YE
<b>Special Provisions:</b>	None
<b>Excepted quantities (EQ):</b>	E2
<b>Limited Quantities:</b>	1L
<b>Packagings &amp; IBCs - Packing Instruction:</b>	P001, IBC002
<b>Packagings &amp; IBCs - Special Packing Provisions:</b>	None
<b>Portable Tanks &amp; Bulk Containers - Instructions:</b>	T4
<b>Portable Tanks &amp; Bulk Containers - Special Provisions:</b>	TP1

## 15 Regulatory Information

**Australian Inventory of Industrial Chemicals:**

All ingredients are listed.

**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:**

Poisons Schedule: 5

## 16 Other Information

**Date of Preparation or Last Revision:** 22.04.2022**Prepared by:** MSDS.COM.AU Pty Ltd

www.msds.com.au

**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Flammable Liquids 2: Flammable liquids – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

**Disclaimer**

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020”

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