

Safety Data Sheet

according to WHS Regulations

Printing date 09.03.2017

Revision: 09.03.2017

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 Poison 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.



Serious Eye Damage/Irritation 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.

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

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

P280 Wear protective gloves / eye protection / face protection.

P240 Ground/bond container and receiving equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash hands thoroughly after handling.

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

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

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

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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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 to extinguish: CO ₂ , powder or water spray.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national regulations.

Additional Information

AUH006 Explosive with or without contact with air.

AUH066 Repeated exposure may cause skin dryness or cracking.

3 Composition and Information on Ingredients

Chemical Characterisation: Substances**CAS No. Description**

78-93-3 2-Butanone 99-100%

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.

Skin Contact:

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

Eye Contact:

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

Ingestion:

If swallowed, do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: Inhalation of high concentrations may cause central nervous effects characterised by headache, dizziness, unconsciousness, and coma.

Ingestion: Causes gastrointestinal tract irritation with nausea, vomiting and diarrhea. May affect the liver.

5 Fire Fighting Measures

Suitable Extinguishing Media: Dry chemical powder, foam, water spray or fog. Do not use water jet.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon.

Product is highly flammable. Vapours may travel considerable distances to a source of ignition where they can ignite, flashback, or explode.

Closed containers may explode when exposed to extreme heat. Containers close to fire should be removed 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.

Special Protective Equipment and Precautions for Fire Fighters:

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

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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 touch spilled material. 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.

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.

8 Exposure controls and personal protection

Exposure Standards:
78-93-3 2-Butanone

WES	STEL: 890 mg/m ³ , 300 ppm TWA: 445 mg/m ³ , 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 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:

PVC, PVA, nitrile, neoprene, rubber or vinyl 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 the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

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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:

Form:	Liquid
Colour:	Colourless, clear
Odour:	Alcohol solvent odour
Odour Threshold:	No information available
pH-Value:	No information available
Melting point/freezing point:	-86.3 °C
Initial Boiling Point/Boiling Range:	79-80.5 °C
Flash Point:	-4 °C
Flammability:	Highly flammable.
Auto-ignition Temperature:	>215 °C
Decomposition Temperature:	Not determined.
Explosion Limits:	
Lower:	1 Vol %
Upper:	6.7 Vol %
Vapour Pressure at 20 °C:	105 hPa
Relative Density at 20 °C:	0.7
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Insoluble
Solubility in Solvents:	Soluble in hydrocarbon solvents

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 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.

11 Toxicological Information

Toxicity:**LD₅₀/LC₅₀ Values Relevant for Classification:****78-93-3 2-Butanone**

Oral	LD ₅₀	3300 mg/kg (rat)
Dermal	LD ₅₀	5000 mg/kg (rabbit)

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Acute Health Effects**Inhalation:**

Inhalation of high concentrations may cause central nervous effects characterised by headache, dizziness, unconsciousness, and coma.

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

Eye: Causes eye irritation.

Ingestion: Causes gastrointestinal tract irritation with nausea, vomiting and diarrhea. 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.

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 and 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:

Chronic inhalation may cause effects similar to those of acute inhalation.

Prolonged or repeated skin contact may cause defatting and dermatitis

Existing Conditions Aggravated by Exposure: No information available

12 Ecological Information

Ecotoxicity: No information available

Aquatic toxicity: No information available

Persistence and Degradability: No information available

Bioaccumulative Potential: No information available

Mobility in Soil: No information available

Other adverse effects: No 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

UN Number**ADG, IMDG, IATA**

UN1193

Proper Shipping Name**ADG**

1193 ETHYL METHYL KETONE (METHYL ETHYL KETONE)

IMDG, IATA

ETHYL METHYL KETONE (METHYL ETHYL KETONE)

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Dangerous Goods Class**ADG Class:** 3 (F1) Flammable liquids.**IMDG Class:** 3 Flammable liquids.**Packing Group:****ADG, IMDG, IATA** II**EMS Number:** F-E,S-D**Hazchem Code:** .2YE**Limited Quantities:** 1L**Packagings & IBCs - Packing Instruction:** P001, IBC02**Portable Tanks & Bulk Containers - Instructions:** T4**Portable Tanks & Bulk Containers - Special Provisions:** TP1

15 Regulatory information

Australian Inventory of Chemical Substances:

78-93-3	2-Butanone
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Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 5

16 Other information

Date of Preparation or Last Revision: 09.03.2017**Prepared by:** MSDS.COM.AU Pty Ltdwww.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

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

LC₅₀: Lethal concentration, 50 percentLD₅₀: 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

Serious Eye Damage/Irritation 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 - February 2016"

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