



Material Safety Data Sheet Cover-Sheet – This page provides additional New Zealand specific information for this product and must be read in conjunction with the Safety Data Sheet (SDS) attached

Product Name: Die Spacer Kit Gold & Thinner

Manufacturer: Henry Schein

SDS Expiry: 8 February 2028

Supplier Details: Henry Schein New Zealand

243-249 Bush Road, Rosedale, Auckland, 0632 PO Box 101 140, North Shore, Auckland 0745

Ph. 0800 808 855

www.henryschein.co.nz

Emergency Contacts: Poisons/Hazardous Chemical Info Centre –

0800POISON/0800764766 (24 Hours) Phone 111 for Fire, Ambulance or Police

HSNO Class/Category: 3 / 6 / 9

HSNO Group Standard: Dental Products Flammable Group Standard 2020 HSR002556

Statements/Pictograms: As per attached Safety Data Sheet (SDS)

Date Prepared: This coversheet was prepared – February 2024

This SDS coversheet has been produced by Henry Schein NZ and has been prepared in accordance with NZ EPA advice on making overseas SDS compliant to HSNO Act. The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specifications of the product. Users must satisfy that the product is entirely suitable for their purpose. The SDS and this coversheet may be revised from time to time, please ensure you have a current copy.



# SAFETY DATA SHEET

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name DVA DIE SPACER THINNER

**Synonyms** 

1.2 Uses and uses advised against

Uses DENTAL RESTORATION ● DENTISTRY

1.3 Details of the supplier of the product

Supplier name HENRY SCHEIN REGIONAL PTY LTD ATF HENRY SCHEIN REGIONAL TRUST

Address Building 3, Level 6, 189 O'Riordan St, Mascot, NSW, 2020, AUSTRALIA

**Telephone** 1300 658 822

Email customer.care@henryschein.com.au

Website https://henryschein.com.au/

1.4 Emergency telephone numbers

**Emergency** 13 11 26 (Poisons Information Centre)

1.7 Details of alternative suppliers of the product

Supplier name HENRY SCHEIN REGIONAL LTD

243-249 Bush Road, Rosedale, Auckland, 0632, NEW ZEALAND

Phone: 0800 808 855

Emergency: 0800 764 766 (National Poisons Centre)

info@henryschein.co.nz
https://www.henryschein.co.nz

# 2. HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

**Physical Hazards** 

Flammable Liquids: Category 2

**Health Hazards** 

Serious Eye Damage / Eye Irritation: Category 2A

Specific Target Organ Toxicity (Single Exposure): Category 3 (Respiratory Irritation) Specific Target Organ Toxicity (Single Exposure): Category 3 (Narcotic Effects)

Repeated exposure may cause skin dryness or cracking.

**Environmental Hazards** 

Not classified as an Environmental Hazard

2.2 GHS Label elements

Signal word DANGER

**Pictograms** 





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#### PRODUCT NAME DVA DIE SPACER THINNER

#### **Hazard statements**

AUH066 Repeated exposure may cause skin dryness or cracking.

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

#### **Prevention statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

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.

#### Response statements

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

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

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

do. Continue rinsing.

P312 Call a POISON CENTRE or doctor/physician if you feel unwell.

P337 + P313 If eye irritation persists: Get medical advice/attention. P370 + P378 In case of fire: Use appropriate media to extinguish.

#### Storage statements

P403 + P233 + P235 Store in a well-ventilated place. Keep cool. Keep container tightly closed.

P405 Store locked up.

### **Disposal statements**

P501 Dispose of contents/container in accordance with relevant regulations.

### 2.3 Other hazards

No information provided.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content (w/w)
METHYL ETHYL KETONE (2-BUTANONE)	78-93-3	201-159-0	100%

## 4. FIRST AID MEASURES

# 4.1 Description of first aid measures

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to

stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

**Inhalation** If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or

an Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.

**Skin** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If

swallowed, do not induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

### 4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

Ingestion

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### 5. FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Dry agent, carbon dioxide or foam. Prevent contamination of drains and waterways.

## 5.2 Special hazards arising from the substance or mixture

Highly flammable. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition. Vapour may form explosive mixtures with air. Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, pilot lights, heaters, naked lights, etc when handling. Earth containers when dispensing fluids. Exposure to heat above 200°C may release methyl methacrylate monomer.

#### 5.3 Advice for firefighters

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

### 5.4 Hazchem code

#### •2YE

- •2 Alcohol Resistant Foam is the preferred firefighting medium but, if it is not available, fine water spray can be used.
- Υ Risk of violent reaction or explosion. Wear full fire kit and breathing apparatus. Contain spill and run-off.
- Evacuation of people in and around the immediate vicinity of the incident should be considered. Ε

### 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

# 6.2 Environmental precautions

Prevent product from entering drains and waterways.

### 6.3 Methods of cleaning up

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Eliminate all sources of ignition.

## 6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

# 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, preferably flammables store, removed from direct sunlight, incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should have appropriate ventilation and fire protection systems.

#### 7.3 Specific end uses

No information provided.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

### **Exposure standards**

Ingredient	Reference		VA	STEL	
Ingredient	Treference	ppm	mg/m³	ppm	mg/m³
Methyl ethyl ketone (MEK)	SWA [AUS]	150	445	300	890
Methyl ethyl ketone (MEK)	SWA [Proposed]	200	590	300	885



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### PRODUCT NAME DVA DIE SPACER THINNER

### **Biological limits**

Ingredient	Reference	Determinant	Sampling Time	BEI
METHYL ETHYL KETONE (2-BUTANONE)	ACGIH BEI	Methyl ethyl ketone in urine	End of shift	2 mg/L

### 8.2 Exposure controls

Engineering controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical explosion proof

extraction ventilation is recommended. Flammable/explosive vapours may accumulate in poorly ventilated areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back.

Maintain vapour levels below the recommended exposure standard.

PPE

**Eye / Face** Wear splash-proof goggles. **Hands** Wear barrier gloves.

**Body** Wear coveralls.

**Respiratory** Where an inhalation risk exists, wear a Type A (Organic vapour) respirator. If spraying, wear a Type A-Class

P1 (Organic gases/vapours and Particulate) respirator.







# 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance CLEAR COLOURLESS LIQUID Odour MILD KETONE ODOUR

Flammability HIGHLY FLAMMABLE Flash point -4°C (cc)

Boiling point -4°C (cc)

Melting pointNOT AVAILABLEEvaporation rate6.0 (Butyl acetate = 1)pHNOT AVAILABLE

Vapour density > 1 (Air = 1)
Relative density 0.86

Solubility (water) SOLUBLE

Vapour pressure 83 mm Hg @ 24°C

Upper explosion limit 12.8 % Lower explosion limit 2.6 %

Partition coefficient
Autoignition temperature
Decomposition temperature
Viscosity
Explosive properties
Oxidising properties
Odour threshold
NOT AVAILABLE
NOT AVAILABLE
NOT AVAILABLE
NOT AVAILABLE
NOT AVAILABLE

9.2 Other information

**VOC** 860 g/L

# 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

# 10.2 Chemical stability

Stable under recommended conditions of storage.

# 10.3 Possibility of hazardous reactions

Polymerization is not expected to occur.

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#### **DVA DIE SPACER THINNER** PRODUCT NAME

#### 10.4 Conditions to avoid

Avoid shock, friction, heavy impact, heat, sparks, open flames and other ignition sources.

#### 10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid), alkalis (e.g. sodium hydroxide), heat and ignition sources.

### 10.6 Hazardous decomposition products

May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.

### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

Acute exposure may result in nausea, vomiting, abdominal pain, diarrhoea, dizziness and drowsiness. Acute toxicity

Information available for the ingredients:

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
METHYL ETHYL KETONE (2-BUTANONE)	2737 mg/kg (rat)	6480 mg/kg (rabbit)	23500 mg/kg (rat)

Skin Contact may result in drying and defatting of the skin, rash and dermatitis.

Causes serious eye irritation. Contact may result in irritation, lacrimation, pain and redness. Eye

Sensitisation Not classified as causing skin or respiratory sensitisation. Mutagenicity Insufficient data available to classify as a mutagen. Carcinogenicity Insufficient data available to classify as a carcinogen. Reproductive Insufficient data available to classify as a reproductive toxin.

STOT - single exposure

Over exposure may result in central nervous system (CNS) effects with headache, drowsiness and dizziness.

STOT - repeated exposure

Repeated exposure to some solvents have been reported to cause adverse effects to the central nervous system (CNS), liver and kidney. Over exposure to methyl ethyl ketone (MEK) in combination with certain

other solvents (eg n-hexane) may result in peripheral nerve damage.

Aspiration into the lungs may result in chemical pneumonitis and pulmonary oedema. **Aspiration** 

# 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

No information provided.

### 12.2 Persistence and degradability

Methyl ethyl ketone (MEK) vapour in the atmosphere will degrade primarily by reaction with photochemically produced hydroxyl radicals. MEK is rapidly biodegradable.

### 12.3 Bioaccumulative potential

Methyl ethyl ketone (MEK) is not expected to bioaccumulate.

# 12.4 Mobility in soil

Methyl ethyl ketone (MEK) will volatilise from the soil and water surfaces and is highly mobile with in soil.

### 12.5 Other adverse effects

No information provided.

# 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Waste disposal For small amounts, absorb with sand, vermiculite or similar and dispose of to an approved landfill site.

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Contact the manufacturer/supplier for additional information if disposing of large quantities (if required). Prevent contamination of drains and waterways as aquatic life may be threatened and environmental

damage may result.

Legislation Dispose of in accordance with relevant local legislation.



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# 14. TRANSPORT INFORMATION

### CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE



	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	1193	1193	1193
14.2 Proper Shipping Name	ETHYL METHYL KETONE (METHYL ETHYL KETONE)	ETHYL METHYL KETONE (METHYL ETHYL KETONE)	ETHYL METHYL KETONE (METHYL ETHYL KETONE)
14.3 Transport hazard class	3	3	3
14.4 Packing Group	II	II	II

#### 14.5 Environmental hazards

Not a Marine Pollutant.

#### 14.6 Special precautions for user

 Hazchem code
 ●2YE

 GTEPG
 3A1

 Specific EPG
 3.0.021

 EmS
 F-E, S-D

## 15. REGULATORY INFORMATION

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

Poison schedule Classified as a Schedule 5 (S5) Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Classifications Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and

Labelling of Chemicals (GHS Revision 7).

Inventory listings AUSTRALIA: AllC (Australian Inventory of Industrial Chemicals)

All components are listed on AIIC, or are exempt.

### 16. OTHER INFORMATION

### Additional information

Original manufacturer details: Dental Ventures of America, Inc. 1787 Pomona Rd., Suite C Corona, 92880, CA, USA Phone: 951-270-0606

WORK PRACTICES - SOLVENTS: Organic solvents may present both a health and flammability hazard. It is recommended that engineering controls should be adopted to reduce exposure where practicable (for example, if using indoors, ensure explosion proof extraction ventilation is available). Flammable or combustible liquids with explosive limits have the potential for ignition from static discharge. Refer to AS 1020 (The control of undesirable static electricity) and AS 1940 (The storage and handling of flammable and combustible liquids) for control procedures.

SYNERGISM - ANTAGONISM: Ingredients in this product may act together to aggravate or reduce adverse effects. Accordingly the time weighted average concentration (TWA) provided for single ingredients should be considered as a guide only and all due care exercised when handling.

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

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# PRODUCT NAME DVA DIE SPACER THINNER

#### PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

#### HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations ACGIH American Conference of Governmental Industrial Hygienists

CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds

CNS Central Nervous System

EC No. EC No - European Community Number

EMS Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous

Goods)

GHS Globally Harmonized System

GTEPG Group Text Emergency Procedure Guide IARC International Agency for Research on Cancer

LC50 Lethal Concentration, 50% / Median Lethal Concentration

LD50 Lethal Dose, 50% / Median Lethal Dose

mg/m³ Milligrams per Cubic Metre
OEL Occupational Exposure Limit

pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly

alkaline).

ppm Parts Per Million

STEL Short-Term Exposure Limit

STOT-RE Specific target organ toxicity (repeated exposure)
STOT-SE Specific target organ toxicity (single exposure)

SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

SWA Safe Work Australia
TLV Threshold Limit Value
TWA Time Weighted Average

## Report status

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

### Prepared by

Risk Management Technologies 5 Ventnor Ave, West Perth Western Australia 6005 Phone: +61 8 9322 1711 Fax: +61 8 9322 1794

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[ End of SDS ]



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# SAFETY DATA SHEET

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name DVA DIE SPACER - GOLD
Synonyms DIE SPACER (GOLD)

1.2 Uses and uses advised against

Uses DENTAL APPLICATIONS

The application of die spacer results in additional space between the finished restoration and the natural

tooth surface to accommodate the cement used for bonding the restoration.

1.3 Details of the supplier of the product

Supplier name HENRY SCHEIN REGIONAL PTY LTD ATF HENRY SCHEIN REGIONAL TRUST

Address Building 3, Level 6, 189 O'Riordan St, Mascot, NSW, 2020, AUSTRALIA

**Telephone** 1300 658 822

Email customer.care@henryschein.com.au

Website <a href="https://henryschein.com.au/">https://henryschein.com.au/</a>

1.4 Emergency telephone numbers

**Emergency** 13 11 26 (Poisons Information Centre)

1.7 Details of alternative suppliers of the product

Supplier name HENRY SCHEIN REGIONAL LTD

243-249 Bush Road, Rosedale, Auckland, 0632, NEW ZEALAND

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Phone: 0800 808 855

Emergency: 0800 764 766 (National Poisons Centre)

info@henryschein.co.nz https://www.henryschein.co.nz

### 2. HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

**Physical Hazards** 

Flammable Liquids: Category 2

**Health Hazards** 

Skin Sensitisation: Category 1

Serious Eye Damage / Eye Irritation: Category 2A

Specific Target Organ Toxicity (Single Exposure): Category 3 (Respiratory Irritation) Specific Target Organ Toxicity (Single Exposure): Category 3 (Narcotic Effects)

Toxic to Reproduction: Category 1A

Repeated exposure may cause skin dryness or cracking.

**Environmental Hazards** 

Aquatic Toxicity (Acute): Category 1 Aquatic Toxicity (Chronic): Category 2

2.2 GHS Label elements

Signal word DANGER



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#### **Pictograms**









#### **Hazard statements**

AUH066 Repeated exposure may cause skin dryness or cracking.

H225 Highly flammable liquid and vapour. May cause an allergic skin reaction. H317 Causes serious eye irritation. H319 H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. May damage fertility or the unborn child. H360

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

#### **Prevention statements**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

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

Wash thoroughly after handling. P264

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

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

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

### Response statements

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

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

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

do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention. P321 Specific treatment is advised - see first aid instructions. P362 + P364 Take off contaminated clothing and wash it before reuse. P370 + P378 In case of fire: Use appropriate media to extinguish.

P391 Collect spillage.

### Storage statements

P403 + P233 + P235 Store in a well-ventilated place. Keep cool. Keep container tightly closed.

P405 Store locked up.

### **Disposal statements**

P501 Dispose of contents/container in accordance with relevant regulations.

### 2.3 Other hazards

No information provided.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content (w/w)
METHYL ETHYL KETONE (2-BUTANONE)	78-93-3	201-159-0	50 to 75%
COPPER	7440-50-8	231-159-6	10 to 25%
ZINC POWDER - ZINC DUST (STABILISED)	7440-66-6	231-175-3	1 to 10%
METHYL METHACRYLATE	80-62-6	201-297-1	0.1 to 1%
TOLUENE	108-88-3	203-625-9	0.1 to 1%

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### 4. FIRST AID MEASURES



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#### 4.1 Description of first aid measures

Eve If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to

stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or

an Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Skin

Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If

swallowed, do not induce vomiting.

First aid facilities Eye wash facilities and safety shower should be available.

### 4.2 Most important symptoms and effects, both acute and delayed

Acute: Irritating to the skin. Vapours may cause drowsiness and dizziness. Chronic: Central nervous system (CNS), liver and kidney damage. Possible risk of harm to the unborn child.

### 4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

Ingestion

### 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

Dry agent, carbon dioxide or foam. Prevent contamination of drains and waterways. Do not use water jets.

#### 5.2 Special hazards arising from the substance or mixture

Highly flammable. May evolve toxic gases (carbon oxides, copper oxides, zinc oxides, hydrocarbons) when heated to decomposition. Vapour may form explosive mixtures with air. Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, heaters, naked lights, pilot lights and mobile phones when handling. Earth containers when dispensing fluids.

#### 5.3 Advice for firefighters

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

### 5.4 Hazchem code

•3YE

- •3 Alcohol Resistant Foam is the preferred firefighting medium but, if it is not available, normal foam can be used.
- Υ Risk of violent reaction or explosion. Wear full fire kit and breathing apparatus. Contain spill and run-off.
- Ε Evacuation of people in and around the immediate vicinity of the incident should be considered.

### 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

### 6.2 Environmental precautions

Prevent product from entering drains and waterways.

## 6.3 Methods of cleaning up

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Eliminate all sources of ignition. Use spark-proof tools and explosion-proof equipment.

#### 6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

# 7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas. Take precautionary measures against electrostatic discharges.

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# 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, preferably flammables store, removed from direct sunlight, incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should have appropriate ventilation and fire protection systems.

### 7.3 Specific end uses

No information provided.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Control parameters

#### **Exposure standards**

Ingredient	Reference	TV	VA	STEL	
	Keierence	ppm	mg/m³	ppm	mg/m³
Copper (fume)	SWA [AUS]		0.2		
Copper (fume, dusts & mists)	SWA [Proposed]		0.01		
Copper, dusts & mists (as Cu)	SWA [AUS]		1		
Methyl ethyl ketone (MEK)	SWA [AUS]	150	445	300	890
Methyl ethyl ketone (MEK)	SWA [Proposed]	200	590	300	885
Methyl methacrylate	SWA [AUS]	50	208	100	416
Toluene	SWA [AUS]	50	191	150	574
Toluene	SWA [Proposed]	20	75		
Zinc oxide (dust)	SWA [AUS]		10		

### **Biological limits**

Ingredient	Reference	Determinant	Sampling Time	BEI
METHYL ETHYL KETONE (2-BUTANONE)	ACGIH BEI	Methyl ethyl ketone in urine	End of shift	2 mg/L
TOLUENE	ACGIH BEI	o-Cresol in urine (with hydrolysis)	End of shift	0.3 mg/g creatinine
	ACGIH BEI	Toluene in urine	End of shift	0.03 mg/L
	ACGIH BEI	Toluene in blood	Prior to last shift of workweek	0.02 mg/L

### 8.2 Exposure controls

**Engineering controls** 

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical explosion proof extraction ventilation is recommended. Flammable/ explosive vapours may accumulate in poorly ventilated areas. Vapours may travel some distance to an ignition source and flash back.

PPE

Eye / Face Wear splash-proof goggles.

**Hands** Wear PVA or Viton® or barrier gloves.

**Body** Wear coveralls.

Respiratory Where an inhalation risk exists, wear a Type A (Organic vapour) respirator. At high vapour levels, wear an

Air-line respirator. If using product in a confined area, wear Self Contained Breathing Apparatus (SCBA).









# 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance GOLD LIQUID

Odour SWEET SHARP ODOUR Flammability HIGHLY FLAMMABLE

Flash point  $-4^{\circ}C$  (cc)



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### 9.1 Information on basic physical and chemical properties

**Boiling point** 80°C **Melting point** -86°C

**Evaporation rate** > 1 (Butyl acetate = 1) PH NOT AVAILABLE

Vapour density > 1 (Air = 1) Relative density 0.95

Solubility (water) SLIGHTLY SOLUBLE

Vapour pressure 70 mm Hg @ 20°C (Approximately)

Upper explosion limit11.5 % (Approximately)Lower explosion limit1.8 % (Approximately)Partition coefficientNOT AVAILABLE

Autoignition temperature 516°C

Decomposition temperature
Viscosity

Explosive properties
Oxidising properties
Odour threshold

NOT AVAILABLE
NOT AVAILABLE
NOT AVAILABLE

9.2 Other information

% Volatiles > 65 %

### 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

### 10.2 Chemical stability

Stable under recommended conditions of storage.

### 10.3 Possibility of hazardous reactions

Polymerization is not expected to occur.

# 10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

# 10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid), alkalis (e.g. sodium hydroxide), chlorinated solvents, water, heat and ignition sources.

### 10.6 Hazardous decomposition products

May evolve toxic gases (carbon oxides, copper oxides, zinc oxides, hydrocarbons) when heated to decomposition.

### 11. TOXICOLOGICAL INFORMATION

# 11.1 Information on toxicological effects

Acute toxicity

Acute exposure causes dose-related central nervous effects including nausea, vomiting, abdominal pain, diarrhoea, dizziness and drowsiness. High acute exposures may result in progressive impairment of

consciousness, eventually resulting in seizures and coma.

Information available for the ingredients:

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
METHYL ETHYL KETONE (2-BUTANONE)	2737 mg/kg (rat)	6480 mg/kg (rabbit)	23500 mg/kg (rat)
COPPER		> 2000 mg/kg (rat)	
ZINC POWDER - ZINC DUST (STABILISED)	> 2,000 mg/kg (rat)		> 5.41 mg/l/4hrs (rat)
METHYL METHACRYLATE	> 5000 mg/kg (mouse)	> 5000 mg/kg (rabbit)	> 25 mg/L (rat)
TOLUENE	5580 mg/kg (rat)	5000 mg/kg (rabbit)	25.7 - 30 mg/L/4hrs (rat)

**Skin** Contact may result in drying and defatting of the skin, irritation, rash and dermatitis.

**Eye** Contact may result in irritation, lacrimation, pain and redness.

Sensitisation May cause an allergic skin reaction. This product is not classified as a respiratory sensitiser.

Mutagenicity Insufficient data available to classify as a mutagen.



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**Carcinogenicity** Insufficient data available to classify as a carcinogen.

**Reproductive** Over exposure to toluene may damage fertility or the unborn child.

STOT - single Over exposure may result in irritation of the nose and throat, coughing, nausea and headache. High level

exposure exposure may result in dizziness, drowsiness, breathing difficulties and unconsciousness.

**STOT - repeated**Repeated exposure to toluene may result in central nervous system (CNS), liver and kidney damage. Over exposure to methyl ethyl ketone (MEK) in combination with certain other solvents (eg n-hexane) may result in

peripheral nerve damage.

Aspiration Aspiration into the lungs may result in chemical pneumonitis and pulmonary oedema.

### 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

If aromatic hydrocarbons are released to soil, they will evaporate from near-surface soil & leach to groundwater. Biodegradation occurs in soil & groundwater but may be slow, especially at high concentrations, which can be toxic to microorganisms. Will exist largely as vapour in air. Half life in atmosphere depends on particular hydrocarbon (eg 1-2 days (xylene); 3 hrs-1 day (toluene)).

### 12.3 Bioaccumulative potential

Not expected to bioconcentrate or bioaccumulate.

#### 12.4 Mobility in soil

Expected to have high to moderate mobility in soil.

### 12.5 Other adverse effects

Avoid contamination of drains and waterways.

# 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Waste disposal

Wearing the protective equipment outlined, ensure all ignition sources are extinguished. For small quantities,

absorb on paper, sand or similar and evaporate under a fume cupboard or open area. For large volumes, atomise into incinerator (mixing with more flammable solvent if required) or recycle by gravimetric separation,

distilling & reusing. Contact the manufacturer/supplier for additional information (if required).

**Legislation** Dispose of in accordance with relevant local legislation.

# 14. TRANSPORT INFORMATION

## CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE





	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	1993	1993	1993
14.2 Proper Shipping Name	FLAMMABLE LIQUID, N.O.S. (contains ethyl methyl ketone)	FLAMMABLE LIQUID, N.O.S. (contains ethyl methyl ketone)	FLAMMABLE LIQUID, N.O.S. (contains ethyl methyl ketone)
14.3 Transport hazard class	3	3	3
14.4 Packing Group	II	II	II

### 14.5 Environmental hazards

Marine Pollutant.

### 14.6 Special precautions for user

Hazchem code ●3YE



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 GTEPG
 3A1

 EmS
 F-E, S-E

Other information The environmentally hazardous substance mark is not required when transported in packages of less

than 5 kg/L (UN Model Regulations: Special Provision 375; IATA: Special Provision A197; IMDG:

Special Provision 969) or less than 500 kg/L by Australian Road and Rail.

# 15. REGULATORY INFORMATION

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

Poison schedule Classified as a Schedule 5 (S5) Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Classifications Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and

Labelling of Chemicals (GHS Revision 7).

Inventory listings AUSTRALIA: AllC (Australian Inventory of Industrial Chemicals)

All components are listed on AIIC, or are exempt.

### 16. OTHER INFORMATION

Additional information Original manufacturer details:

Dental Ventures of America, Inc. 1787 Pomona Rd., Suite C Corona, 92880, CA, USA Phone: 951-270-0606

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

WORK PRACTICES - SOLVENTS: Organic solvents may present both a health and flammability hazard. It is recommended that engineering controls should be adopted to reduce exposure where practicable (for example, if using indoors, ensure explosion proof extraction ventilation is available). Flammable or combustible liquids with explosive limits have the potential for ignition from static discharge. Refer to AS 1020 (The control of undesirable static electricity) and AS 1940 (The storage and handling of flammable and combustible liquids) for control procedures.

### PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

### **HEALTH EFFECTS FROM EXPOSURE:**

It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

ChemAlert.

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Abbreviations ACGIH American Conference of Governmental Industrial Hygienists

CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds

CNS Central Nervous System

EC No. EC No - European Community Number

EMS Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous

Goods)

GHS Globally Harmonized System

GTEPG Group Text Emergency Procedure Guide
IARC International Agency for Research on Cancer

LC50 Lethal Concentration, 50% / Median Lethal Concentration

LD50 Lethal Dose, 50% / Median Lethal Dose

mg/m³ Milligrams per Cubic Metre
OEL Occupational Exposure Limit

pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly

alkaline).

ppm Parts Per Million

STEL Short-Term Exposure Limit

STOT-RE Specific target organ toxicity (repeated exposure)
STOT-SE Specific target organ toxicity (single exposure)

SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

SWA Safe Work Australia
TLV Threshold Limit Value
TWA Time Weighted Average

### Report status

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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[ End of SDS ]



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