Hi-Tec Oil Traders Pty Ltd ABN 28 053 837 362
5 Tarlington Place Smithfield NSW 2164
Correspondence: P.O Box 322 Castle Hill NSW 1765
Ph: 1300 796 009 | **Fax:** (02) 9604 1611 | **Email:** hitecoils@hi-tecoils.com.au
www.hi-tecoils.com.au

SAFETY DATA SHEET

Product name: **Solsyn Q2000NZ**

1. COMPANY DETAILS AND PRODUCT IDENTIFICATION

COMPANY:	Hi-Tec Oil Traders Pty Ltd. (ABN 28 053 837 362)
ADDRESS:	PO Box 322 Castle Hill NSW 1765 5 Tarlington Place, Smithfield NSW 2164
TELEPHONE NUMBER:	1300 796 009
FAX NUMBER:	(02) 9604 1611
EMERGENCY TELEPHONE NUMBER:	1300 796 009
PRODUCT NAME:	Solsyn Q2000NZ
OTHER NAMES:	Solsyn Q2000NZ Synthetic Machining and Grinding Fluid
MANUFACTURER'S PRODUCT CODE:	HI8-3423
USE:	Synthetic metal forming fluid
ADDITIONAL INFORMATION:	Refer to Product Information Sheet for additional information.
OTHER INFORMATION:	Visit our website: www.hi-tecoils.com.au Email: hitecoils@hi-tecoils.com.au

2. HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE:	HAZARDOUS SUBSTANCE NON-DANGEROUS GOODS Hazard classification according to criteria of NOHSC and GHS. Dangerous goods classification according to the Australian Dangerous Goods.
POISON SCHEDULE:	S6
GHS LABEL ELEMENTS:	

SIGNAL WORD:	**WARNING**

2. HAZARDS IDENTIFICATION (CONT)

GHS HAZARD CLASSIFICATIONS

SKIN CORROSION/IRRITATION:	Category 2
SERIOUS EYE DAMAGE /IRRITATION:	Category 2
HAZARD STATEMENTS:	H315: Causes skin irritation H319: Causes serious eye irritation
PREVENTION STATEMENTS:	Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
RESPONSE STATEMENTS:	Specific treatment (see supplemental first aid instructions on this label). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before re-use.
OTHER HAZARDS:	Harmful to aquatic life with long lasting effects. Harmful to aquatic life.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERISTICS**:** Liquid

INGREDIENTS:-

CHEMICAL ENTITY	CAS NO	PROPORTION
Triethanolamine	102-71-6	10-<20%
Ethanol, 2-(hydroxymethylamino)-	34375-28-5	10-<20%
2-Butoxyethanol	111-76-2	1-<3%
Poly[oxyethylene(dimethyliminio)ethylene (dimethyliminio)ethylene dichloride]	31075-24-8	1-<3%
Ingredients determined to be non-hazardous		To 100%

4. FIRST AID MEASURES

GENERAL INFORMATION:	You should call the POISONS INFORMATION CENTRE if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 11 26 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.
INHALATION:	Remove to fresh air. Get medical attention immediately if symptoms occur.

4. FIRST AID MEASURES (CONT)

SKIN CONTACT:	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
EYE CONTACT:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.
INGESTION:	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.
FIRST AIDER:	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).
NOTES TO PHYSICIAN:	Treat symptomatically.
SYMPTOMS & EFFECTS: (BOTH ACUTE & DELAYED)	Burning sensation.

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
UNSUITABLE EXTINGUISHING MEDIA:	Do not use water jetstream.
SPECIFIC HAZARDS:	Thermal decomposition can lead to release of irritating and toxic gases and vapours.
FIRE FIGHTING:	Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Refer to protective measures listed in Sections 7 and 8.
EMERGENCY RESPONDERS:	Use personal protection recommended in Section 8.
ENVIRONMENTAL PRECAUTIONS:	Prevent further leakage or spillage if safe to do so.
METHODS OF CONTAINMENT:	Prevent further leakage or spillage if safe to do so.

6. ACCIDENTAL RELEASE MEASURES (CONT)

METHODS OF CLEANING UP: Take up mechanically, placing in appropriate containers for disposal.

PRECAUTIONS TO PREVENT SECONDARY HAZARDS: Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

SAFE HANDLING: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before re-use.

GENERAL HYGIENE: Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

SAFE STORAGE: Keep containers tightly closed in a dry, cool and well-ventilated place.

INCOMPATIBLE MATERIALS: Strong acids. Strong bases. Strong oxidising agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS: This product, as supplied, contains hazardous materials with occupational exposure limits.

Chemical Name		**Australia**
Triethanolamine	102-71-6	5 mg/m^3 TWA
2-Butoxyethanol	111-76-2	20 ppm TWA
		96.9 mg/m^3 TWA
		50 ppm STEL
		242 mg/m^3 STEL
		Skin*

*This substance can easily penetrate intact skin and be absorbed into the body. Skin absorption may be a significant source of exposure.

TWA - The time-weighted average airborne concentration over an eight -hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight -hour workday. These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity. If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION (CONT)

BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS: An occupational medicine specialist familiar with national and regional regulations and standards must be consulted to establish a program of medical examinations for workers exposed to substances with biological limit values.

Chemcial Name	Australia	ACGIH	UK	EU Union
2-Butoxyethanol 111-76-2	-	Butoxyacetic acid with Hydrolysis: 200 mg/g creatinine urine end of shift	240 mmol/mol creatinine	-

ENGINEERING CONTROLS: Ensure adequate ventilation, especially in confirned areas.

EYE/FACE PROTECTION: Tight sealing safety goggles.

SKIN & BODY PROTECTION: Suitable protective clothing.

RESPIRATORY PROTECTION: Where respiratory protection is required, use a respirator selected and in accordance with AS/NZS 1715 and AS/NZS 1716.

ENVIRONMENTAL EXPOSURE CONTROLS: No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

CHARACTERISTIC: Clear yellow to orange to brown
(NB: colour change overtime is not detrimental to performance)

PHYSICAL: Liquid

APPEARANCE: Clear

ODOUR: Not available

ODOUR THRESHOLD: Not available

pH: 9.5-10.5 (solution 5%)

BOILING POINT/BOILING RANGE (°C): Not available

MELTING POINT/FREEZING POINT (°C): Not available

FLASH POINT (°C): Not relevant

EVAPORATION RATE: Not available

9. PHYSICAL AND CHEMICAL PROPERTIES (CONT)

FLAMMABILITY (SOLID, GAS):	Not available
FLAMMABILITY LIMIT (UPPER):	Not available
FLAMMABILITY LIMIT (LOWER):	Not available
VAPOUR PRESSURE:	Not available
VAPOUR DENSITY:	Not available
RELATIVE DENSITY:	1.09 @ 25°C
SOLUBILITY (WATER):	Soluble
SOLUBILITY (IES)	Not available
PARTITION COEFFICIENT:	Not available
AUTO-IGNITION TEMPERATURE (°C):	Not available
DECOMPOSITION TEMPERATURE:	Not available
KINEMATIC VISCOSITY:	Not available
DYNAMIC VISCOSITY:	Not available
OXIDISING PROPERTIES:	Not available
EXPLOSIVE PROPERTIES:	Not available
VOC CONTENT (%)	Not available
DENSITY:	*Not available

* This information may be derived from the components in the preparation.

10. STABILITY AND REACTIVITY

REACTIVITY:	Not available.
CHEMICAL STABILITY:	Stable under normal conditions.
EXPLOSION DATA:	Sensitivity to mechanical impact – None. Sensitvity to static discharge – May be ignited by heat, sparks or flames.

10. STABILITY AND REACTIVITY (CONT)

INCOMPATIBLE MATERIALS: Strong acids. Strong bases. Strong oxidising agents.

HAZARDOUS DECOMPOSITION PRODUCTS: None under normal use conditions.

HAZARDOUS REACTIONS: None under normal processing.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

INHALATION: Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

EYE CONTECT: Specific test data for the substance or mixture is not available. Irritating to eyes. (based on components). Causes serious eye irritation.

SKIN CONTACT: Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).

INGESTION: Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

NUMERICAL MEASURES OF TOXICITY: The following values are calculated based on chapter 3.1 of the GHS document Converted acute toxicity point estimates may have been used when only acute toxicity hazard classification is available.

ATEmix (oral) 18,800.00
ATEmix (dermal) 44,000.00
ATEmix (inhalation-vapour) 81.00
ATEmix (inhalation-dust/mist) 11.10
0% of the mixture consists of ingredient(s) of unknown toxicity

Ingredient	Oral Toxicity(LD50)	Dermal Toxicity(LD50)	Inhalation Toxicity(LC50)
Triethanolamine	4190 mg/kg (Rat)	-	-
2-Butoxyethanol	470mg/kg (Rat)	99mg/kg (Rabbit) = 1	450ppm (Rat) 4 h

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE

SKIN CORROSION/IRRITATION: Classification based on individual ingredients of the mixture. Irritating to skin.

SERIOUS EYE DAMAGE/IRRITATION: Classification based on individual ingredients of the mixture. Irritating to eyes.

11. TOXICOLOGICAL INFORMATION (CONT)

SENSITISATION: No information available.

STOT – SINGLE /REPEATED EXPOSURE: No information available.

ASPIRATION: No information available.

REPRODUCTIVE: No information available.

GERM CELL MUTAGENICITY: No information available.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Unknown aquatic toxicity.
10% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Triethanolamine:

Fish-
10600 - 13000 mg/L LC50 96 h Pimephales promelas flow-through
450 - 1000 mg/L LC50 96 h Lepomis macrochirus static
1000 mg/L LC50 96 h Pimephales promelas static
Crustacea-
1386 mg/L EC50 24 h Daphnia magna
Algae/Aquatic Plants-
169 mg/L EC50 96 h Desmodesmus subspicatus
216 mg/L EC50 72 h Desmodesmus subspicatus

2-Butoxyethanol:

Fish
2950 mg/L LC50 96 h Lepomis macrochirus
1490 mg/L LC50 96 h Lepomis macrochirus static
Crustacea-
1000 mg/L EC50 48 h Daphnia magna
1698 - 1940 mg/L EC50 24 h Daphnia magna

PERSISTENCE AND DEGRADABILITY: No information available.

BIOACCUMULATIVE POTENTIAL

Chemical Name	**Partition Coefficient**
Triethanolamine	-2.53
2-Butoxyethanol	0.81

MOBILITY IN SOIL: No information available.

MOBILITY: No information available.

OTHER ADVERSE EFFECTS: No information available.

13. DISPOSAL CONSIDERATIONS

WASTE FROM RESIDUES/UNUSED PRODUCTS:	Disposal should be in accordance with applicable regional, national and local laws and regulations. Since empty containers retain product residue, follow label warnings even after container is emptied.
CONTAMINATED PACKAGING:	Disposal should be in accordance with applicable regional, national and local laws and regulations. Observe all label precautions until container is cleaned, reconditioned or destroyed. Refer to all federal, state and local regulations prior to disposal of container and unused contents by reuse, recycle or disposal.

14. TRANSPORT INFORMATION

ROAD & RAIL TRANSPORT:	
ADG REQUIREMENT	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
MARITIME TRANSPORT:	
IMO/IMDG REQUIREMENT	Not classified as a Dangerous Good according to the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.
AIR TRANSPORT:	
ICAO/IATA REQUIREMENT	Not classified as a Dangerous Good according to the criteria of the International Maritime Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

POISON SCHEDULE:	S6
PACKING & LABELLING:	No special packaging or labelling requirements.
AUSTRALIAN INVENTORY STATUS:	All components are listed or exempted.

16. OTHER INFORMATION

CONTACT PERSON/POINT:

General Manager 1300 796 009

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.

LITERATURE REFERENCES:

* NOHSC: 2011 National Code of Practice for the preparation of Material Safety Data Sheets.
* NOHSC: 1008 Approved Criteria for Classifying Hazardous Substances.
* NOHSC: 10005 List of Designated Hazardous Substances.
* NOHSC: 1005 Control of Workplace Hazardous Substances, National Code of Practice.
* NOHSC: 2007 Control of Workplace Hazardous Substances, National Code of Practice.
* NOHSC: 1003 Exposure Standards for Atmospheric Contaminants in the Occupational Environment, National Exposure Standards.
* NOHSC: 3008 Exposure Standards for Atmospheric Contaminants in the Occupational Environment, Guidance Note.
* NOHSC: 1015 Storage and Handling of Workplace Dangerous Goods, National Standard.
* NOHSC: 2017 Storage and Handling of Workplace Dangerous Goods, National Code of Practice.
* SUSDP: Standard for the Uniform Scheduling of Drugs and Poisons
* ADG: Australian Dangerous Goods Code
* MSDS of component materials.

LAST CHANGE:

Supercedes document issued: 20th May 2015
Reason/s for revision: Minor editorial changes to comply with GHS requirements.

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END OF SDS