SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name S-COMPLEX (US)

Synonyms CHEMFORCE S-COMPLEX

1.2 Uses and uses advised against

Uses CUTTING FLUID

Diamond tool cutting aid / lubricant for natural stone, man-made stone, porcelain and glass.

1.3 Details of the supplier of the product

Supplier name CHEMFORCE PTY LTD.

Address Factory 2, 30-32 Law Crt, Sunshine West, VIC, 3020, AUSTRALIA

Telephone +61 (0)417 339 927

Email john@chemforce.com.au

Website http://www.chemforce.com.au

1.4 Emergency telephone numbers

Emergency +61 (0)417 339 927

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS UNDER OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200

Physical Hazards

Not classified as a Physical Hazard

Health Hazards

Skin Corrosion/Irritation: Category 2

Serious Eye Damage / Eye Irritation: Category 2A

Environmental Hazards

Not classified as an Environmental Hazard

2.2 GHS Label elements

Signal word WARNING

Pictograms



Hazard statements

H315 Causes skin irritation. H319 Causes serious eye irritation.

Prevention statements

P264 Wash thoroughly after handling.

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



Response statements

P302 + P352 IF ON SKIN: Wash with plenty of water.

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

do. Continue rinsing.

P321 Specific treatment is advised - see first aid instructions.
P332 + P337 + P313 If skin or eye irritation occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage statements

None allocated.

Disposal statements

None allocated.

2.3 Other hazards

No information provided.

NFPA



3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
ETHYLENE GLYCOL (1,2-ETHANEDIOL)	107-21-1	203-473-3	5 to 15%
SODIUM HYDROXIDE	1310-73-2	215-185-5	<5%
NON HAZARDOUS INGREDIENTS	Not Available	Not Available	Remainder

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.

Ingestion For advice, contact the Poison Control Centre at 1-800-222-1222 or a doctor (at once).

First aid facilities None allocated.

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.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

5.2 Special hazards arising from the substance or mixture

Non flammable. May evolve toxic gases if strongly heated.



5.3 Advice for firefighters

Treat as per requirements for surrounding fires. Evacuate area and contact emergency services. 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

None allocated.

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.

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, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills.

7.3 Specific end uses

No information provided.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

Ingredient	Reference	TWA		STEL	
Ingredient	Kelelelice	ppm	mg/m³	ppm	mg/m³
Ethylene glycol	ACGIH TLV [USA]				100
Sodium hydroxide	ACGIH TLV [USA]				2
Sodium hydroxide	OSHA PEL [USA]		2		

Biological limits

No biological limit values have been entered for this product.

8.2 Exposure controls

Engineering controls

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

ChemAlert.

PPE

Eye / Face Wear splash-proof goggles.

Hands Wear rubber or butyl or neoprene gloves.

Body Wear coveralls.

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







9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance STRAW YELLOW TO LIGHT BROWN LIQUID

Odour ODOURLESS
Flammability NON FLAMMABLE
Flash point NOT RELEVANT

Boiling point 100°C **Melting point** -3°C

Evaporation rate NOT AVAILABLE

pH 10 to 10.5 (1% solution)

Vapour density NOT AVAILABLE

Relative density

Solubility (water) SOLUBLE **NOT AVAILABLE** Vapour pressure NOT RELEVANT Upper explosion limit NOT RELEVANT Lower explosion limit Partition coefficient NOT AVAILABLE **NOT AVAILABLE Autoignition temperature Decomposition temperature** NOT AVAILABLE NOT AVAILABLE **Viscosity NOT AVAILABLE Explosive properties** Oxidising properties **NOT AVAILABLE Odour threshold NOT AVAILABLE**

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) and phosphorus pentasulphide.

10.6 Hazardous decomposition products

May evolve toxic gases if heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects



Acute toxicity May be harmful if swallowed.

Information available for the ingredients:

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
ETHYLENE GLYCOL (1,2-ETHANEDIOL)	1670 mg/kg (cat); >	9530 mg/kg (rabbit)	10876 mg/kg (rat)

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

Eye Contact may result in irritation, lacrimation, pain and redness. Sensitisation Not classified as causing skin or respiratory sensitisation.

Not classified as a mutagen. Mutagenicity Carcinogenicity Not classified as a carcinogen. Reproductive Not classified as a reproductive toxin.

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

may result in nausea, dizziness and drowsiness. exposure

STOT - repeated

Repeated exposure to some glycols may result in kidney damage.

exposure

Not classified as causing aspiration. **Aspiration**

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ethylene glycol has moderate toxicity to aquatic life on both a short term and long-term basis.

12.2 Persistence and degradability

In water and soil ethylene glycol is expected to degrade in several days to a week. The major degradation product is hydroxyacetaldehyde.

12.3 Bioaccumulative potential

Ethylene glycol is not expected to bioaccumulate.

12.4 Mobility in soil

Expected to be very highly mobile in soil. Not anticipated to volatilise from moist soil or water surfaces.

12.5 Results of PBT and vPvB assessment

No information provided.

12.6 Other adverse effects

Avoid contamination of drains and waterways.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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

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.

Dispose of in accordance with relevant local legislation. Legislation

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF DOT, IMDG OR IATA



	LAND TRANSPORT (DOT)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)		
14.1 UN Number	None allocated.	None allocated.	None allocated.		
14.2 Proper Shipping Name	None allocated.	None allocated.	None allocated.		
14.3 Transport hazard class	None allocated.	None allocated.	None allocated.		
14.4 Packing Group	None allocated.	None allocated.	None allocated.		

14.5 Environmental hazards

Not a Marine Pollutant.

14.6 Special precautions for user

15. REGULATORY INFORMATION

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

US EPCRA and CAA Regulatory Information

The following components are subject to the Emergency Planning and Community Right-to-Know Act (EPCRA) and Section 112(r) of the Clean Air Act (CAA):

Ingredient	CAS Number	Sara 302 (TPQ)	Sara 304 (RQ)	CERCLA (RQ)	Sara 313	RCRA Code	CAA (TQ)
ETHYLENE GLYCOL (1,2-ETHANEDIOL)	107-21-1			5000	313		
SODIUM HYDROXIDE	1310-73-2			1000			

^{*} Refer to Section 16 - Summary of Codes

Carcinogenicity

The following carcinogenic status applies:

None of the components of this product are listed on the NTP/IARC/OSHA lists.

Inventory listings

UNITED STATES: TSCA (US Toxic Substances Control Act) All components are listed on the TSCA inventory, or are exempt. AUSTRALIA: AIIC (Australian Inventory of Industrial Chemicals)

All components are listed on AIIC, or are exempt.

16. OTHER INFORMATION

16.1 Additional information

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.

WORKPLACE CONTROLS AND PRACTICES: Unless a less toxic chemical can be substituted for a hazardous substance, ENGINEERING CONTROLS are the most effective way of reducing exposure. The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release. Isolating operations can also reduce exposure. Using respirators or protective equipment is less effective than the controls mentioned above, but is sometimes necessary.

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.



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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.

16.2 Abbreviations

ACGIH American Conference of Governmental Industrial Hygienists

CAA Clean Air Act

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

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CNS Central Nervous System

EC No. EC No - European Community Number

EMS Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)

EPCRA Emergency Planning and Community Right-to-Know Act

GHS Globally Harmonized System

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
NTP U.S. National Toxicology Program
OEL Occupational Exposure Limit

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

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

ppm Parts Per Million

RCRA Resource Conservation and Recovery Act

RQ Reportable Quantity measured in pounds (304, CERCLA)

SARA Superfund Amendments and Reauthorization Act

STEL Short-Term Exposure Limit

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

TLV Threshold Limit Value

TPQ Threshold Planning Quantity measured in pounds (302)

TQ Threshold Quantity measured in pounds (CAA)

TWA Time Weighted Average

16.3 Summary Of Codes

RQ Reportable Quantity measured in pounds (304, CERCLA)

TQ Threshold Quantity measured in pounds (CAA)

TPQ Threshold Planning Quantity measured in pounds (302)
A Reporting threshold has changed since November 1998.

+ Member of PAC category.

Member of diisocyanate category.

X Indicates that this is a second name for a chemical already included on this consolidated list. May also indicate that the

same chemical with the same CAS number appears on another list with a different chemical name.

* RCRA carbamate waste: statutory one-pound RQ applies until RQs are adjusted.

* This chemical was identified from a Premanufacture Review Notice (PMN) submitted to EPA. The submitter has

claimed certain information on the submission to be confidential, including specific chemical identity.

Indicates that no RQ is assigned to this generic or broad class, although the class is a CERCLA hazardous substance. See 50 Federal Register 13456 (April 4, 1985). Values in Section 313 column represent Category Codes for reporting

under Section 313.

c Although not listed by name and CAS number, this chemical is reportable under one or more of the EPCRA section 313 chemical categories.

Indicates that this chemical is currently under a administrative stay of the EPCRA section 313 reporting requirements,

therefore, no Toxics Release Inventory reports are required until the stay is removed.

Member of the dioxin and dioxin-like compounds category.



16.4 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.

16.5 Prepared by

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Prepared in accordance to OSHA Hazard Communication standard, 29 CFR 1920.1200.

[End of SDS]



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