

### Novachem Pty Ltd

Version No: 2.2

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 2

Issue Date: **12/09/2018** Print Date: **12/09/2018** S.GHS.AUS.EN

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### **Product Identifier**

Product name	2,2'-azobis[N-(2-hydroxyethyl)]-2-methylpropanamide	
Chemical Name	2,2'-azobis[N-(2-hydroxyethyl)]-2-methylpropanamide	
Synonyms	013-19342 017-19345	
Proper shipping name	SELF-HEATING SOLID, ORGANIC, N.O.S. (contains 2,2'-azobis[N-(2-hydroxyethyl)]-2-methylpropanamide)	
Chemical formula	C12H24N4O4	
Other means of identification	Not Available	
CAS number	61551-69-7*	

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	For research purposes
	i el recourser purposes

# Details of the supplier of the safety data sheet

Registered company name	Novachem Pty Ltd	
Address	25 Crissane Road, Heidelberg West Victoria 3081 Australia	
Telephone	+61384151255	
Fax	+61386250088	
Website	www.novachem.com.au	
Email	novachem@novachem.com.au	

#### Emergency telephone number

Association / Organisation	Victorian Poisons Information Centre	
Emergency telephone numbers	13 11 26	
Other emergency telephone numbers	Not Available	

## **SECTION 2 HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

Poisons Schedule	Poisons Schedule Not Applicable	
Classification <sup>[1]</sup>	1] Flammable Solid Category 2, Self-Heating Material Category 1, Skin Sensitizer Category 1, Chronic Aquatic Hazard Category 3	
Legend: 1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Anne		

#### Label elements

Hazard pictogram(s)	

SIGNAL WORD DANGER

#### Hazard statement(s)

H228	Flammable solid.	
H251	Self-heating: may catch fire.	
H317	May cause an allergic skin reaction.	
H412	Harmful to aquatic life with long lasting effects.	

# Precautionary statement(s) Prevention

P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.	
P235+P410	Keep cool. Protect from sunlight.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P240	Ground/bond container and receiving equipment.	

### Precautionary statement(s) Response

P363	Wash contaminated clothing before reuse.	
P370+P378	In case of fire: Use water jets for extinction.	
P302+P352	2 IF ON SKIN: Wash with plenty of soap and water.	
P333+P313	33+P313 If skin irritation or rash occurs: Get medical advice/attention.	

# Precautionary statement(s) Storage

P407	Maintain air gap between stacks/pallets.	
P413	Store bulk masses greater than kg/lbs at temperatures not exceeding°C/°F.	
P420	0 Store away from other materials.	

# Precautionary statement(s) Disposal

<b>P501</b> D	Dispose of contents/container in accordance with local regulations.
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# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### Substances

CAS No	%[weight]	Name
61551-69-7	>98	2,2'-azobis[N-(2-hydroxyethyl)]-2-methylpropanamide

#### Mixtures

See section above for composition of Substances

# **SECTION 4 FIRST AID MEASURES**

Description of first aid meas	ures
Eye Contact	<ul> <li>If in eyes, hold eyelids apart and flush the eye continuously with running water.</li> <li>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> <li>For THERMAL burns:</li> <li>Do NOT remove contact lens</li> <li>Lay victim down, on stretcher if available and pad BOTH eyes, make sure dressing does not press on the injured eye by placing thick pads under dressing, above and below the eye.</li> <li>Seek urgent medical assistance, or transport to hospital.</li> </ul>
Skin Contact	<ul> <li>If skin or hair contact occurs: <ul> <li>Immediately flush body and cothes with large amounts of water, using safety shower if available.</li> <li>Quickly remove all contaminated clothing, including footwear.</li> <li>Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.</li> <li>Transport to hospital, or doctor.</li> </ul> </li> <li>In case of burns: <ul> <li>Inmediately paphy cold water to burn either by immersion or wrapping with saturated clean cloth.</li> <li>Do NOT remove or cut away clothing over burnt areas. DO NOT pull away clothing which has adhered to the skin as this can cause further injury.</li> <li>Do NOT merove or cut away clothing over burnt areas. DO NOT pull away clothing which has adhered to the skin as this can cause further injury.</li> <li>Do NOT remove or cut away clothing over burnt areas. DO NOT pull away clothing which has adhered to the skin as this can cause further injury.</li> <li>Do NOT remove or cut away clothing over burnt areas. DO NOT pull away clothing which has adhered to the skin as this can cause further injury.</li> <li>Do NOT apply ointments, oils, butter, etc. to a burn under any circumstances.</li> <li>Water may be given in small quantities if the person is conscious.</li> <li>Alcohol is not to be given under any circumstances.</li> <li>Neasure.</li> <li>Treat for shock by keeping the person warm and in a lying position.</li> <li>Seek medical aid and advise medical personnel in advance of the cause and extent of the injury and the estimated time of arrival of the patient.</li> </ul> </li> <li>For first-degree burns (affecting top layer of skin)</li> <li>Hold burned skin under cool (not cold) running water or immerse in cool water until pain subsides.</li> <li>Use compresses if running water is not available.</li> <li>Do NOT apply burner or ointments; this may cause infection.</li> <li>Give over-the counter pain relievers if pain increases or swelling, redness, fever occur.</li> </ul>

	<ul> <li>Do NOT break blisters or apply butter or ointments; this may cause infection.</li> <li>Protect burn by cover loosely with sterile, nonstick bandage and secure in place with gauze or tape.</li> <li>To prevent shock: (unless the person has a head, neck, or leg injury, or it would cause discomfort): <ul> <li>Lay the person flat.</li> <li>Elevate feet about 12 inches.</li> <li>Elevate burn area above heart level, if possible.</li> <li>Cover the person with coat or blanket.</li> <li>Seek medical assistance.</li> </ul> </li> <li>For third-degree burns</li> <li>Seek immediate medical or emergency assistance.</li> <li>In the mean time: <ul> <li>Protect burn area cover loosely with sterile, nonstick bandage or, for large areas, a sheet or other material that will not leave lint in wound.</li> <li>Separate burned toes and fingers with dry, sterile dressings.</li> <li>Do not soak burn in water or apply ointments or butter; this may cause infection.</li> <li>To prevent shock see above.</li> <li>For an airway burn, do not place pillow under the person's head when the person is lying down. This can close the airway.</li> <li>Have a person with a facial burn sit up.</li> <li>Check pulse and breathing to monitor for shock until emergency help arrives.</li> </ul> </li> </ul>
Inhalation	<ul> <li>If dust is inhaled, remove from contaminated area.</li> <li>Encourage patient to blow nose to ensure clear passage of breathing.</li> <li>If irritation or discomfort persists seek medical attention.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5 FIREFIGHTING MEASURES**

#### Extinguishing media

For SMALL FIRES:

- Dry chemical, CO2, water spray or foam.
- For LARGE FIRES:
- Foam, fog or water spray
- DO NOT use water jets.

# Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result	
Advice for firefighters		
Fire Fighting	<ul> <li>Wear SCBA and fully-encapsulating, gas-tight suits when handling these substances.</li> <li>Always wear thermal protective clothing when handling molten substances.</li> <li>Structural fire fighter's uniform will only provide limited protection.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Consider evacuation (or protect in place).</li> </ul>	
Fire/Explosion Hazard	<ul> <li>May ignite on contact with air leading to spontaneous combustion</li> <li>May decompose explosively when heated or involved in fire.</li> <li>May REIGNITE after fire is extinguished.</li> <li>Gases generated in fire may be poisonous, corrosive or irritating.</li> <li>Containers may explode on heating.</li> <li>Combustion products include:</li> <li>Combustible. Will burn if ignited.</li> <li>carbon monoxide (CO)</li> </ul>	

# SECTION 6 ACCIDENTAL RELEASE MEASURES

HAZCHEM

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

1Y

carbon dioxide (CO2) nitrogen oxides (NOx)

other pyrolysis products typical of burning organic material.

See section 8

#### **Environmental precautions**

See section 12

#### Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Eliminate all ignition sources.</li> <li>Cover with WET earth, sand or other non-combustible material.</li> <li>Use clean, non-sparking tools to collect absorbed material</li> <li>Wear gloves and safety glasses as appropriate.</li> </ul>
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<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and</li> <li>Eliminate all ignition sources (no smoking, finite structure)</li> <li>Stop leak if safe to do so; prevent entry into w</li> <li>May be violently or explosively reactive.</li> </ul>	d nature of hazard. flares, sparks or flarnes) waterways, drains or confined spaces.
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Personal Protective Equipment advice is contained in Section 8 of the SDS.

# SECTION 7 HANDLING AND STORAGE

Precautions for safe handling				
Safe handling	<ul> <li>For large scale or continuous use, spark-free, earthed ventilation system venting directly to the outside and separate from usual ventilation systems</li> <li>Provide dust collectors with explosion vents.</li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of overexposure occurs.</li> <li>Use in a well-ventilated area.</li> </ul>			
Other information	<ul> <li>Store under an inert gas, e.g. argon or nitrogen.</li> <li>FOR MINOR QUANTITIES: <ul> <li>Store in an indoor fireproof cabinet or in a room of noncombustible construction.</li> <li>Provide adequate portable fire-extinguishers in or near the storage area.</li> </ul> </li> <li>FOR PACKAGE STORAGE: <ul> <li>Store in original containers in approved flame-proof area.</li> <li>No smoking, naked lights, heat or ignition sources.</li> </ul> </li> </ul>			

### Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>For low viscosity materials and solids:</li> <li>Drums and jerricans must be of the non-removable head type.</li> <li>Where a can is to be used as an inner package, the can must have a screwed enclosure.</li> <li>For materials with a viscosity of at least 2680 cSt. (23 deg. C):</li> <li>Removable head packaging and</li> <li>cans with friction closures may be used.</li> </ul>
Storage incompatibility	Avoid reaction with oxidising agents

### SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control parameters**

### OCCUPATIONAL EXPOSURE LIMITS (OEL)

### INGREDIENT DATA

Not Available

#### EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
2,2'-azobis[N-(2-hydroxyethyl)]-2- methylpropanamide	Not Available	Not Available	Not Available	Not Available
Ingredient	Original IDLH		Revised IDLH	
2,2'-azobis[N-(2-hydroxyethyl)]-2- methylpropanamide	Not Available		Not Available	

### Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.
Personal protection	
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>NOTE:</li> <li>The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.</li> <li>Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.</li> <li>Fire resistant/ heat resistant gloves where practical, otherwise</li> <li>Heavy-duty chemically resistant gloves capable of providing short-term protection against spontaneous ignition.</li> </ul>
Body protection	See Other protection below

Other protection	Wear protective clothing appropriate for the work situation. For large scale or continuous use, when handling dry powder, wear : -tight-weave, non-static, noncombustible or flameproof clothing without cuffs, metallic fasteners, pockets, or laps in which powder may collect. -non-sparking safety or conductive footwear. Conductive footwear describes a boot or shoe with a sole made from a conductive compound chemically bound to the bottom components, for permanent control to electrically ground the foot an shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds.

### **Respiratory protection**

Particulate. (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent)

Required Minimum Protection Factor up to 10 x ES up to 50 x ES up to 100 x ES	Half-Face Respirator P1 Air-line* Air-line** -	Full-Face Respirator - - P2 P3	Powered Air Respirator PAPR-P1 - PAPR-P2 -
100+ x ES	-	Air-line* Air-line**	- PAPR-P3

\* - Negative pressure demand \*\* - Continuous flow

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

# SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Appearance	Not Available		
Physical state	Divided Solid	Relative density (Water = 1)	0.476
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	138-145 (decomposes)	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	288.35
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	0.004	Volatile Component (%vol)	Negligible
Vapour pressure (kPa)	Negligible	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available

# SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	<ul> <li>May heat spontaneously</li> <li>Identify and remove sources of ignition and heating.</li> <li>Incompatible material, especially oxidisers, and/or other sources of oxygen may produce unstable product(s).</li> <li>Hazardous polymerization will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# SECTION 11 TOXICOLOGICAL INFORMATION

### Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Ingestion	The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. Open cuts, abraded or irritated skin should not be exposed to this material

#### Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort Eye characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result Chronic Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. 2,2'-azobis[N-(2-TOXICITY IRRITATION hydroxyethyl)]-2-Oral (rat) LD50: >2000 mg/kg<sup>[2]</sup> Not Available methylpropanamide 2,2'-azobis[N-(2-TOXICITY IRRITATION hydroxyethyl)]-2-Oral (rat) LD50: >2000 mg/kg<sup>[2]</sup> Not Available methylpropanamide 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.\* Value obtained from manufacturer's SDS. Unless otherwise specified Legend: data extracted from RTECS - Register of Toxic Effect of chemical Substances 2,2'-AZOBIS[N-(2-HYDROXYETHYL)]-2-Ames test negative \* \* Halliburton SDS METHYLPROPANAMIDE 2,2'-azobis[N-(2hydroxyethyl)]-2-The following information refers to contact allergens as a group and may not be specific to this product. methylpropanamide & Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema 2,2'-AZOBIS[N-(2involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated HYDROXYETHYL)]-2immune reactions METHYLPROPANAMIDE × $\bigcirc$ Acute Toxicity Carcinogenicity Reproductivity Skin Irritation/Corrosion $\odot$ $\bigcirc$ 0 STOT - Single Exposure Serious Eye Damage/Irritation Respiratory or Skin 0 ~ STOT - Repeated Exposure sensitisation $\bigcirc$ $\bigcirc$ Mutagenicity Aspiration Hazard $\mathbf{X}$ – Data available but does not fill the criteria for classification Legend:

- Data available to make classification

🚫 – Data Not Available to make classification

#### **SECTION 12 ECOLOGICAL INFORMATION**

Toxicity

2,2'-azobis[N-(2- hydroxyethyl)]-2- methylpropanamide	ENDPOINT Not Available	TEST DURATION (HR) Not Available	SPECIES Not Available	VALUE Not Available	SOURCE Not Available
2,2'-azobis[N-(2- hydroxyethyll)]-2- methylpropanamide	ENDPOINT Not Available	TEST DURATION (HR) Not Available	SPECIES Not Available	VALUE Not Available	SOURCE Not Available
Legend: Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data					

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
2,2'-azobis[N-(2-hydroxyethyl)]-2- methylpropanamide	HIGH	HIGH

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
2,2'-azobis[N-(2-hydroxyethyl)]-2- methylpropanamide	LOW (LogKOW = -1.1785)

### Mobility in soil

Mobility Ingredient

2,2'-azobis[N-(2-hydroxyethyl)]-2methylpropanamide

SECTION 13 DISPOSAL CONSIDERATIONS

### Waste treatment methods

Product / Packaging disposal	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> <li>Otherwise: <ul> <li>If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.</li> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Authority for disposal.</li> <li>Bury or incinerate residue at an approved site.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul> </li> </ul>

### **SECTION 14 TRANSPORT INFORMATION**

#### Labels Required

	4
Marine Pollutant	NO
HAZCHEM	1Y

# Land transport (ADG)

UN number	3088		
UN proper shipping name	SELF-HEATING SOLID, ORGANIC, N.O.S. (contains 2,2'-azobis[N-(2-hydroxyethyl)]-2-methylpropanamide)		
Transport hazard class(es)	Class 4.2 Subrisk Not Applicable		
Packing group			
Environmental hazard	Not Applicable		
Special precautions for user	Special provisions     223 274       Limited quantity     0		

# Air transport (ICAO-IATA / DGR)

UN number	3088			
UN proper shipping name	Self-heating solid, organi	c, n.o.s. * (contains 2,2'-azobis[N-(2-hyd	roxyethyl)]-2-methylpropanam	nide)
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	4.2 Not Applicable 4L		
Packing group	Ш			
Environmental hazard	Not Applicable	Not Applicable		
Special precautions for user	Special provisions Cargo Only Packing In Cargo Only Maximum ( Passenger and Cargo Passenger and Cargo Passenger and Cargo Passenger and Cargo	structions Qty / Pack Packing Instructions Maximum Qty / Pack Limited Quantity Packing Instructions Limited Maximum Qty / Pack	A3 471 100 kg 469 25 kg Forbidden Forbidden	

### Sea transport (IMDG-Code / GGVSee)

UN number	3088
UN proper shipping name	SELF-HEATING SOLID, ORGANIC, N.O.S. (contains 2,2'-azobis[N-(2-hydroxyethyl)]-2-methylpropanamide)

Transport hazard class(es)	IMDG Class     4.2       IMDG Subrisk     Not Applicable
Packing group	ll l
Environmental hazard	Not Applicable
Special precautions for user	EMS NumberF-A, S-JSpecial provisions223 274Limited Quantities0

Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

#### **SECTION 15 REGULATORY INFORMATION**

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

2,2'-AZOBIS[N-(2-HYDROXYETHYL)]-2-METHYLPROPANAMIDE(61551-69-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

#### National Inventory Status

National Inventory	Status
Australia - AICS	N (2,2'-azobis[N-(2-hydroxyethyl)]-2-methylpropanamide)
Canada - DSL	N (2,2'-azobis[N-(2-hydroxyethyl)]-2-methylpropanamide)
Canada - NDSL	Υ
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Υ
Japan - ENCS	Y
Korea - KECI	N (2,2'-azobis[N-(2-hydroxyethyl)]-2-methylpropanamide)
New Zealand - NZIoC	N (2,2'-azobis[N-(2-hydroxyethyl)]-2-methylpropanamide)
Philippines - PICCS	N (2,2'-azobis[N-(2-hydroxyethyl)]-2-methylpropanamide)
USA - TSCA	Υ
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

#### **SECTION 16 OTHER INFORMATION**

Revision Date	12/09/2018
Initial Date	24/11/2017

#### Other information

#### Ingredients with multiple cas numbers

Name	CAS No
2,2'-azobis[N-(2-hydroxyethyl)]-2- methylpropanamide	61551-69-7, 125692-96-8

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chernwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### Definitions and abbreviations

PC – TWA: Permissible Concentration-Time Weighted Average PC – STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit. IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL: No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LODE Limit of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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