

# SV30 Easyseal

## **On-Crete Australia Pty Ltd**

Version No: **1.6** Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 2

Issue Date: 02/02/2017 Print Date: 02/02/2017 L.GHS.AUS.EN

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

## **Product Identifier**

Product name	SV30 Easyseal
Synonyms	Not Available
Other means of identification	Not Available

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

Relevant identified	Waterbased acrylic sealer for stone and cementous sufaces
uses	

## Details of the supplier of the safety data sheet

Registered company name	On-Crete Australia Pty Ltd
Address	4/489 Scottsdale Drive Varsity Lakes Queensland Australia
Telephone	+61 7 5593 6884
Fax	+61 7 5593 6885
Website	www.on-crete.com.au
Email	info@on-crete.com.au

#### **Emergency telephone number**

Association / Organisation	Not Available
Emergency telephone numbers	+61 406 948 465
Other emergency telephone numbers	+61 406 102 829

## **SECTION 2 HAZARDS IDENTIFICATION**

## Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

## CHEMWATCH HAZARD RATINGS

	Min	Max	
Flammability	0		
Toxicity	0		0 = Minimum
Body Contact	0		1 = Low
Reactivity	0		2 = Moderate 3 = High
Chronic	2		4 = Extreme

Poisons Schedule	Not Applicable
Classification <sup>[1]</sup>	Skin Sensitizer Category 1, Acute Aquatic Hazard Category 3, Chronic Aquatic Hazard Category 3

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Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive VI	1272/2008 - Annex
Label elements		
GHS label elements		
SIGNAL WORD	WARNING	

## Hazard statement(s)

H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

## Precautionary statement(s) Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P261	Avoid breathing mist/vapours/spray.	
P273	Avoid release to the environment.	
P272	Contaminated work clothing should not be allowed out of the workplace.	

#### Precautionary statement(s) Response

P363	Wash contaminated clothing before reuse.	
P302+P352	IF ON SKIN: Wash with plenty of soap and water.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	

## Precautionary statement(s) Storage

Not Applicable

## Precautionary statement(s) Disposal

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

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

## Substances

See section below for composition of Mixtures

#### **Mixtures**

CAS No	%[weight]	Name
7631-99-4	<1	sodium nitrate
55965-84-9	<1	isothiazolinones, mixed
25265-77-4	<10	2,2,4-trimethyl-1,3-pentanediol monoisobutyrate
5131-66-8	<10	propylene glycol monobutyl ether - alpha isomer
61791-28-4	<1	tallow alcohols, ethoxylated
41556-26-7	<1	bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate

## **SECTION 4 FIRST AID MEASURES**

## Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with eyes:</li> <li>Wash out immediately with water.</li> <li>If irritation continues, seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> </ul>

	Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</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

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances.

In such an event consider:

- In foam.
- + dry chemical powder.
- carbon dioxide.

#### Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
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## Advice for firefighters

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>
Fire/Explosion Hazard	<ul> <li>The material is not readily combustible under normal conditions.</li> <li>However, it will break down under fire conditions and the organic component may burn.</li> <li>Not considered to be a significant fire risk.</li> <li>Heat may cause expansion or decomposition with violent rupture of containers.</li> <li>Decomposes on heating and may produce toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> </ul> Decomposes on heating and produces toxic fumes of: <ul> <li>carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit corrosive fumes.</li> </ul>
HAZCHEM	Not Applicable

### SECTION 6 ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

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

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
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Major Spills	<ul> <li>Moderate hazard.</li> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Stop leak if safe to do so.</li> <li>Contain spill with sand, earth or vermiculite.</li> <li>Collect recoverable product into labelled containers for recycling.</li> <li>Neutralise/decontaminate residue (see Section 13 for specific agent).</li> <li>Collect solid residues and seal in labelled drums for disposal.</li> <li>Wash area and prevent runoff into drains.</li> <li>After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> </ul>
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Personal Protective Equipment advice is contained in Section 8 of the SDS.

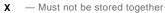
## SECTION 7 HANDLING AND STORAGE

#### Precautions for safe handling

Other information
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## Conditions for safe storage, including any incompatibilities





- 0 May be stored together with specific preventions
- + May be stored together

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#### SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

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## **Control parameters**

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

Not Available

#### EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
sodium nitrate	Sodium nitrate	4.1 mg/m3	45 mg/m3	270 mg/m3

2,2,4-trimethyl- 1,3-pentanediol monoisobutyrate	Trimethyl-1,3-pentanediol monoisobutyrate, 2,2,4-; (Texanol)	isobutyrate, 2,2,4-; (Texanol) 13 mg		140 mg/m3	840 mg/m3
Ingredient	Original IDLH	Revised	IIDLH		
sodium nitrate	Not Available	Not Avai	ilable		
isothiazolinones, mixed	Not Available	Not Available			
2,2,4-trimethyl- 1,3-pentanediol monoisobutyrate	Not Available	Not Available			
propylene glycol monobutyl ether - alpha isomer	Not Available	Not Available			
tallow alcohols, ethoxylated	Not Available	Not Available			
bis(1,2,2,6,6- pentamethyl- 4-piperidyl)sebacate	Not Available	Not Avai	lable		

#### MATERIAL DATA

Sensory irritants are chemicals that produce temporary and undesirable side-effects on the eyes, nose or throat. Historically occupational exposure standards for these irritants have been based on observation of workers' responses to various airborne concentrations. Present day expectations require that nearly every individual should be protected against even minor sensory irritation and exposure standards are established using uncertainty factors or safety factors of 5 to 10 or more. On occasion animal no-observable-effect-levels (NOEL) are used to determine these limits where human results are unavailable. An additional approach, typically used by the TLV committee (USA) in determining respiratory standards for this group of chemicals, has been to assign ceiling values (TLV C) to rapidly acting irritants and to assign short-term exposure limits (TLV STELs) when the weight of evidence from irritation, bioaccumulation and other endpoints combine to warrant such a limit. In contrast the MAK Commission (Germany) uses a five-category system based on intensive odour, local irritation, and elimination half-life. However this system is being replaced to be consistent with the European Union (EU) Scientific Committee for Occupational Exposure Limits (SCOEL); this is more closely allied to that of the USA.

OSHA (USA) concluded that exposure to sensory irritants can:

cause inflammation

- + cause increased susceptibility to other irritants and infectious agents
- lead to permanent injury or dysfunction
- + permit greater absorption of hazardous substances and
- + acclimate the worker to the irritant warning properties of these substances thus increasing the risk of overexposure.

#### 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. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.			
	Type of Contaminant:	Air Speed:		
	solvent, vapours, degreasing etc., evaporating from tank (in still air)	0.25-0.5 m/s (50-100 f/min)		
	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)		
	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min)		
	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).	2.5-10 m/s (500-2000 f/min.)		
	Within each range the appropriate value depends on:			

#### Lower end of the range Upper end of the range 1: Disturbing room air currents 1: Room air currents minimal or favourable to capture 2: Contaminants of low toxicity or of nuisance value only 2: Contaminants of high toxicity 3: Intermittent, low production. 3: High production, heavy use 4: Small hood - local control only 4: Large hood or large air mass in motion Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used. **Personal protection** Safety glasses with side shields. Chemical goggles. • 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. This should Eye and face include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. protection Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] See Hand protection below Skin protection ▶ Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber NOTE: + 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. • Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: frequency and duration of contact. chemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher Hands/feet protection (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. Contaminated gloves should be replaced. For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended. It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task. Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use

applications, then disposed of.

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	<ul> <li>Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential</li> <li>Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>P.V.C. apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>
Thermal hazards	Not Available

## Recommended material(s)

#### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

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Material	CPI
BUTYL	A
NEOPRENE	A
VITON	A
NATURAL RUBBER	С
PVA	С

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

**NOTE**: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. - \* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

#### **Respiratory protection**

Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content. The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	A-AUS /	-
		Class 1	
up to 50	1000	-	A-AUS /
			Class 1
up to 50	5000	Airline *	-
up to 100	5000	-	A-2
up to 100	10000	-	A-3
100+		-	Airline**

\* - Continuous Flow

\*\* - Continuous-flow or positive pressure demand.

A(All classes) = Organic vapours, B AUS or B1 = Acid gases, 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 deg C)

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Appearance	Text		
Physical state	Liquid	Relative density (Water = 1)	1.03
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	9	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	100	Molecular weight (g/mol)	Not Available
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 Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	35

## SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation 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

Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept	classified by EC			
Not normally a hazard due to non-volatile nature of product	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. Not normally a hazard due to non-volatile nature of product			
Ingestion because of the lack of corroborating animal or human evidence. The material may still be damaging t individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evided harmful or toxic substances are generally based on doses producing mortality rather than those produ-	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. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.			
Skin ContactLimited evidence exists, or practical experience predicts, that the material either produces inflammation with substantial number of individuals following direct contact, and/or produces significant inflammation with healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the micros	Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. Limited evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis.			
Eye Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with transient discomfort characterised by tearing or conjunctival redness (as with windburn).	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).			
<b>Chronic</b> Practical experience shows that skin contact with the material is capable either of inducing a sensitisa substantial number of individuals, and/or of producing a positive response in experimental animals.	Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals.			
SV30 Easyseal TOXICITY IRRITATION				
#51allergy <sup>[2]</sup> Not Available				
TOXICITY IRRITATION				
sodium nitrate dermal (rat) LD50: >5000 mg/kg <sup>[1]</sup> Not Available	e			
Oral (rat) LD50: 1267 mg/kg <sup>[2]</sup>				

Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances
ISOTHIAZOLINONES, MIXED	No significant acute toxicological data identified in literature search.
2,2,4-TRIMETHYL- 1,3-PENTANEDIOL MONOISOBUTYRATE	Not a skin sensitiser (guinea pig, Magnusson-Kligman) *** Ames Test: negative *** Micronucleus, mouse: negative *** Not mutagenic *** No effects on fertility or foetal development seen in the rat *** * [SWIFT] ** [Eastman] *** [Perstop]
PROPYLENE GLYCOL MONOBUTYL ETHER - ALPHA ISOMER	If or propylene glycol ethers (PCEs): Typical propylene glycol methyl ether acetate (DPMA): tripropylene glycol methyl ether (TPM). Testing of a wide variety of propylene glycol theres Testing of a wide variety of propylene glycol ethers has shown that propylene glycol-based ethers are less toxic than some ethers of the ethylene series. The common toxicities associated wit the lower molecular weight homologues of the ethylene series, such as adverse effects on reproductive organs, the developing embyo and feuts, blood fhaemolytic effects), or thymus, are not seen with the commercial-grade propylene glycol ethers. In the ethylene series, metabolism of the terminal pridoxy group produces an alkoxyacetic acid. The reproductive and developmental toxicities of the lower molecular weight homologues in the ethylene series are due specifically to the formation of methoxyacetic acids. Longer chain length homologues in the ethylene series are not associated with the reproductive toxicity but can categorian elfects (Intermodynamically favored during manufacture of PCEs) is a secondary allohol incepable of forming an alkoxypropionic acid. In contrast bela-isomers are able to form the alkoxypropionic acids and these are linked to teratogenic effects (Intermodynamically favored during manufacture of PCEs) is a secondary allohol incepable of torming an alkoxpropionic acid as how that this class of commercial-grade glycol ethers. More importantly, however, very extensive empirical test due show that the lower molecular weight ethylene glycol ethers. More importantly, however, very extensive mono-detectable toxicht of any type at dosso cor exposure levels gradity exceeding those showing procumoded effects from the ethylene series. One of the primary metabolices of the propylene glycol ether is torograde glycol, which is of low toxicity and consider (Intermode and expired air. A small portion is accreted in the facces. As a group PCES exhibits low acute toxicity by the radit, dowered and inhabiation routes. At

Continued...

	chromosome aberration assays in mammalian cells with DPnB. However, negative results were seen in a mouse
	micronucleus assay with DPnB and PM. Thus, there is no evidence to suggest these PGEs would be genotoxic <i>in vivo</i> . In a 2-year bioassay on PM, there were no statistically significant increases in tumors in rats and mice.
TALLOW ALCOHOLS, ETHOXYLATED	<ul> <li>2-year bioassay on PM, there were no statistically significant increases in tumors in rats and mice.</li> <li>Tallow derivatives used in the manufacture of cosmelic products such as faty acids. glycerol, latry acid seters and scap are regarded as safe if they are obtained by the following minimal processes which must be strictly cartified:         <ul> <li>transesterification or hydrolysis at 200C, under presure for 20 minutes (glycerol and fatry acids and esters)</li> <li>saponfication with NoOH 124 (glycerol and scap)</li> </ul> </li> <li>bath process: at 49C for 3 hours</li> <li>continuous process: at 140C, 2 hars for 8 minutes or equivalent.</li> <li>Moreover, other tallow derivatives (e.g. fatty alcohols, fatty anines, fatty anides) produced from the above mentioned and submitted for threther processes are regarded as safe.</li> <li>Opinion of The Scientific Committee on Cosmetic Products and Non-Food Products intended for Consumers concerning Tallow Derivatives revised and adapted opinion of 24.6.97 adopted by the plenary session of the SCCNFP of 23 September 1988</li> <li>Alcoho lethoxylates are according to CESIO (2000) classified as Initiant or Harmful depending on the number of EO-units: EO &gt; 15.2 gives Harmful (Xi) with R22 (Harmful if swallowed) - R38/41</li> <li>20 EO is not classified (CESIO 2000)</li> <li>Nox-AE, C13 EXO1 and C13 ECSIO 2000)</li> <li>Nox-AE, C13 EXO1 and C13 ECSI 5, are Irritaling (Xi) with R36/38 (Irritating to eyes and skin).</li> <li>AE are not included in Annex 1 of the list of dangerous substances of the Council Directive 67/548/EEC</li> <li>In general, alcohol ethoxylates (AE) are readily absorbed through the sin of guinea pigs and rats and through the gastordivations and active tax and with an 75% of the does was dsorbed. When applied to the skin of humans, the doese were absorbed slowly and incompletely (G5% absorbed in 72 hours). Hall of the absorbed surging and extensively in at</li></ul>
	detergents is safe and does not cause concern with regard to consumer use.
SODIUM NITRATE & ISOTHIAZOLINONES, MIXED	Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production.

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ISOTHIAZOLINONES, MIXED & BIS(1,2,2,6,6- PENTAMETHYL- 4-PIPERIDYL)SEBACATE	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested.		
ISOTHIAZOLINONES, MIXED & 2,2,4- TRIMETHYL- 1,3-PENTANEDIOL MONOISOBUTYRATE	The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.		
ISOTHIAZOLINONES, MIXED & 2,2,4- TRIMETHYL- 1,3-PENTANEDIOL MONOISOBUTYRATE	The material may cause skin irritation after prolonged or repeated (nonallergic). This form of dermatitis is often characterised by ski there may be intercellular oedema of the spongy layer (spongiosis	n redness (erythema) and swelling epidermis. Histologically	
Acute Toxicity	× Carcino	genicity 🛇	
Skin Irritation/Corrosion	S Repro	ductivity 🛇	
Serious Eye Damage/Irritation		- Single xposure	
Respiratory or Skin		epeated Source	
sensitisation			

Legend:

Data available but does not fill the criteria
 Data available to make classification
 Data Not Available to make classification

## SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
sodium nitrate	LC50	96	Fish	213.366mg/L	3
sodium nitrate	EC50	96	Algae or other aquatic plants	1181.887mg/L	3
sodium nitrate	EC50	384	Crustacea	49.116mg/L	3
sodium nitrate	NOEC	2880	Fish	1.6mg/L	4
2,2,4-trimethyl- 1,3-pentanediol monoisobutyrate	LC50	96	Fish	9.552mg/L	3
2,2,4-trimethyl- 1,3-pentanediol monoisobutyrate	EC50	48	Crustacea	>19mg/L	2
2,2,4-trimethyl- 1,3-pentanediol monoisobutyrate	EC50	96	Algae or other aquatic plants	0.789mg/L	3
2,2,4-trimethyl- 1,3-pentanediol monoisobutyrate	EC50	72	Algae or other aquatic plants	8.1mg/L	2
2,2,4-trimethyl- 1,3-pentanediol monoisobutyrate	NOEC	72	Algae or other aquatic plants	2mg/L	2
propylene glycol monobutyl ether - alpha isomer	LC50	96	Fish	124.694mg/L	3
propylene glycol monobutyl ether - alpha isomer	EC50	96	Algae or other aquatic plants	524.742mg/L	3
propylene glycol monobutyl ether -	EC50	384	Crustacea	29.218mg/L	3

Continued...

alpha isomer					
bis(1,2,2,6,6- pentamethyl- 4-piperidyl)sebacate	LC50	96	Fish	=0.34mg/L	1
bis(1,2,2,6,6- pentamethyl- 4-piperidyl)sebacate	EC0	24	Crustacea	<10mg/L	1
Legend:	3. EPIWIN Suite	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - 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
sodium nitrate	LOW	LOW
2,2,4-trimethyl- 1,3-pentanediol monoisobutyrate	LOW	LOW
propylene glycol monobutyl ether - alpha isomer	LOW	LOW

#### Bioaccumulative potential

Ingredient	Bioaccumulation
sodium nitrate	LOW (LogKOW = 0.209)
2,2,4-trimethyl- 1,3-pentanediol monoisobutyrate	LOW (LogKOW = 2.9966)
propylene glycol monobutyl ether - alpha isomer	LOW (LogKOW = 0.9842)

## Mobility in soil

Ingredient	Mobility
sodium nitrate	LOW (KOC = 14.3)
2,2,4-trimethyl- 1,3-pentanediol monoisobutyrate	LOW (KOC = 22.28)
propylene glycol monobutyl ether - alpha isomer	HIGH (KOC = 1.289)

## 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:</li> <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>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.</li> <li>A Hierarchy of Controls seems to be common - the user should investigate:</li> <li>Reduction</li> </ul>
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Reuse

▶ Recycling
► Disposal (if all else fails)
This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.
If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life
considerations should also be applied in making decisions of this type. Note that properties of a material may change in use,
and recycling or reuse may not always be appropriate.
DO NOT allow wash water from cleaning or process equipment to enter drains.
► It may be necessary to collect all wash water for treatment before disposal.
▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
Where in doubt contact the responsible authority.
► Recycle wherever possible.
Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no
suitable treatment or disposal facility can be identified.
Disease of hus humid in a load fill encoding the second shows included and / an abarmanautical supersonation in

#### Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or incineration in a licenced apparatus (after admixture with suitable combustible material).

• Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

## **SECTION 14 TRANSPORT INFORMATION**

HAZCHEM

# Marine Pollutant NO

Not Applicable

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

## 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

SODIUM NITRATE(7631-99-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

#### ISOTHIAZOLINONES, MIXED(55965-84-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Substances Information System - Consolidated Lists

## 2,2,4-TRIMETHYL-1,3-PENTANEDIOL MONOISOBUTYRATE(25265-77-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

#### PROPYLENE GLYCOL MONOBUTYL ETHER - ALPHA ISOMER(5131-66-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Substances Information System - Consolidated Lists Australia Inventory of Chemical Substances (AICS)

TALLOW ALCOHOLS, ETHOXYLATED(61791-28-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

#### BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL)SEBACATE(41556-26-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

National Inventory	Status
Australia - AICS	N (isothiazolinones, mixed)
Canada - DSL	Y
Canada - NDSL	N (propylene glycol monobutyl ether - alpha isomer; bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate; isothiazolinones, mixed; sodium nitrate; tallow alcohols, ethoxylated; 2,2,4-trimethyl-1,3-pentanediol monoisobutyrate)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	N (isothiazolinones, mixed; tallow alcohols, ethoxylated)
Japan - ENCS	N (tallow alcohols, ethoxylated)
Korea - KECI	Y

#### SV30 Easyseal

New Zealand - NZIoC	Υ
Philippines - PICCS	Υ
USA - TSCA	N (isothiazolinones, mixed)
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**

## Other information

#### Ingredients with multiple cas numbers

Name	CAS No
isothiazolinones, mixed	55965-84-9, 96118-96-6
2,2,4-trimethyl- 1,3-pentanediol monoisobutyrate	25265-77-4, 77-68-9

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch 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

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

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