

## JTC Import Export Pty Ltd

Chemwatch: 5390-93 Version No: 3.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 3

Issue Date: **11/02/2020** Print Date: **13/02/2020** L.GHS.AUS.EN

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

#### **Product Identifier**

Product name	Homebright All-In-1 Ultra Dishwasher Pack
Synonyms	Product code: 52263
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains sodium dodecylbenzenesulfonate)
Other means of identification	Not Available
elevant identified uses of the substance or mixture and uses advised against	

Relevant identified uses Detergent.

#### Details of the supplier of the safety data sheet

Registered company name	JTC Import Export Pty Ltd
Address	98 South Park Drive Dandenong South VIC 3175 Australia
Telephone	+61 3 9532 5100
Fax	+61 3 9532 6102
Website	http://www.jtcimportexport.com.au
Email	sales@jtcimportexport.com.au

#### Emergency telephone number

Association / Organisation	JTC Import Export Pty Ltd	
Emergency telephone numbers	+61 3 9532 5100 (Mon-Thurs 8.30am to 5.30pm; Friday 8.30am to 3pm)	
Other emergency telephone numbers	Not Available	

## **SECTION 2 HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

Poisons Schedule	S6
Classification <sup>[1]</sup>	Acute Toxicity (Oral) Category 4, Acute Toxicity (Inhalation) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage Category 1, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation), Chronic Aquatic Hazard Category 1
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements

Hazard pictogram(s)			*
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SIGNAL WORD DANGER

H302	Harmful if swallowed.
H332	Harmful if inhaled.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s) Prevention

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing dust/fumes.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.

## Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P321	Specific treatment (see advice on this label).
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P330	Rinse mouth.
P332+P313	If skin irritation occurs: Get medical advice/attention.

## Precautionary statement(s) Storage

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

#### Precautionary statement(s) Disposal

P501 Dispos

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### Substances

See section below for composition of Mixtures

## Mixtures

CAS No	%[weight]	Name
15630-89-4	10-40	sodium percarbonate
497-19-8	10-30	sodium carbonate
25155-30-0	10-30	sodium dodecylbenzenesulfonate

## SECTION 4 FIRST AID MEASURES

#### Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Immediately hold eyelids apart and flush the eye continuously with running water.</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>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>Transport to hospital or doctor without delay.</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> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>
Ingestion	<ul> <li>For advice, contact a Poisons Information Centre or a doctor at once.</li> <li>Urgent hospital treatment is likely to be needed.</li> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Transport to hospital or doctor without delay.</li> </ul>

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

## Treat symptomatically.

- For acute or short-term repeated exposures to highly alkaline materials:
- ▶ Respiratory stress is uncommon but present occasionally because of soft tissue edema.

- Unless endotracheal intubation can be accomplished under direct vision, cricothyroidotomy or tracheotomy may be necessary.
- Oxygen is given as indicated.
- ۲ The presence of shock suggests perforation and mandates an intravenous line and fluid administration.

 Damage due to alkaline corrosives occurs by liquefaction necrosis whereby the saponification of fats and solubilisation of proteins allow deep penetration into the tissue. Alkalis continue to cause damage after exposure.

INGESTION:

Milk and water are the preferred diluents

No more than 2 glasses of water should be given to an adult.

▶ Neutralising agents should never be given since exothermic heat reaction may compound injury.

\* Catharsis and emesis are absolutely contra-indicated.

\* Activated charcoal does not absorb alkali.

\* Gastric lavage should not be used.

Supportive care involves the following:

- Withhold oral feedings initially.
- ▶ If endoscopy confirms transmucosal injury start steroids only within the first 48 hours.
- Carefully evaluate the amount of tissue necrosis before assessing the need for surgical intervention.
  Patients should be instructed to seek medical attention whenever they develop difficulty in swallowing (dysphagia). SKIN AND FYE

Injury should be irrigated for 20-30 minutes.

Eye injuries require saline. [Ellenhorn & Barceloux: Medical Toxicology]

## **SECTION 5 FIREFIGHTING MEASURES**

#### Extinguishing media

There is no restriction on the type of extinguisher which may be used.

Use extinguishing media suitable for surrounding area.

#### 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>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>Combustible solid which burns but propagates flame with difficulty; it is estimated that most organic dusts are combustible (circa 70%) - according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions.</li> <li>Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions).</li> <li>Avoid generating dust, particulatry clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion. Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust; (420 micron or less) may burn rapidly and flercely if ignited - particles exceeding this limit will generally not form flammable dust clouds; one initiated, however, larger particles up to 1400 microns diameter will continue to the propagation of an explosion.</li> <li>In the same way as gases and vapours, dusts in the form of a cloud are only ignitable over a range of concentrations; in principle, the concepts of lower explosive limit (LEL) and upper explosive limit (UEL) are applicable to dust clouds but only the LEL is of practical use; - this is because of the inhere utilificulty or adheriving homogeneous dust clouds at high temperatures (for dusts the LEL is of practical use; - this is because of the inhere utilificulty or adheriving homogeneous dust clouds at high temperatures (and uses. Ignitable mixtures will lincrease the rate of explosion pressure rise and the Minimum fightion Energy (the minimum amount of energy required to ignite dust clouds - ME) will be lower than the pure dust. In air mixture. The Lower Explosive Limit (LEL) of the vapour/dust mixture will be lower than the pure dust in air mixture. The Lower</li></ul>		
HAZCHEM	2Z		

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>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Use dry clean up procedures and avoid generating dust.</li> <li>Place in a suitable, labelled container for waste disposal.</li> <li>Environmental hazard - contain spillage.</li> </ul>
Major Spills	<ul> <li>DO NOT touch the spill material Moderate hazard.</li> <li>CAUTION: Advise personnel in area.</li> <li>Alert Emergency Services and tell them location and nature of hazard.</li> <li>Control personal contact by wearing protective clothing.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Recover product wherever possible.</li> <li>IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. IF WET: Vacuum/shovel up and place in labelled containers for disposal.</li> <li>ALWAYS: Wash area down with large amounts of water and prevent runoff into drains.</li> <li>If contamination of drains or waterways occurs, advise Emergency Services.</li> <li>Environmental hazard - contain spillage.</li> </ul>

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>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>Use god occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> <li>Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (Including secondary explosions)</li> <li>Minimise airborne dust and eliminate all lightion sources. Keep away from heat, hot surfaces, sparks, and flame.</li> <li>Establish god housekeeping practices.</li> <li>Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds.</li> <li>Use continuous suction at points of dust generation to capture and minimise the accumulation of dusts. Particular attention should be given to overhead and hiden horizontal suffaces to minimise the probability</li></ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry area protected from environmental extremes.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>For major quantities:</li> <li>Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams).</li> <li>Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities.</li> </ul>

## Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>DO NOT use aluminium, galvanised or tin-plated containers</li> <li>Polyethylene or polypropylene container.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	<ul> <li>Avoid contact with copper, aluminium and their alloys.</li> <li>Avoid storage with reducing agents.</li> <li>Avoid strong acids, bases.</li> <li>Avoid reaction with oxidising agents</li> </ul>

## 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
sodium carbonate	Sodium carbonate	Sodium carbonate		83 mg/m3	500 mg/m3
sodium dodecylbenzenesulfonate	Sodium dodecylbenzenesulfonate; (Dodecyl benzene sodium sulfonate)		2.1 mg/m3	23 mg/m3	87 mg/m3
Ingredient	Original IDLH	Revised IDLH			
sodium percarbonate	Not Available	Not Available			
sodium carbonate	Not Available	Not Available			
sodium dodecylbenzenesulfonate	Not Available	Not Available			

NDING	
Occupational Exposure Band Rating	Occupational Exposure Band Limit
E	≤ 0.01 mg/m³
E	≤ 0.01 mg/m³
E	≤ 0.01 mg/m³

Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.

## MATERIAL DATA

Notes:

#### Exposure 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. Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. An approved self contained breathing apparatus (SCBA) may be required in some situations. Provide adequate ventilation in warehouse or closed storage area. 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:		
Appropriate engineering	solvent, vapours, degreasing etc., evaporating from tank (in still air).		0.25-0.5 m/s (50-100 f/min.)		
controls	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) (100- 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) 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: Room air currents minimal or favourable to capture	1: Disturbing room air currents			
	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: Large hood or large air mass in motion	4: Small hood-local control only			
	Simple theory shows that air velocity falls rapidly with distance	ce away from the opening of a simple extraction pipe. Veloci	ty 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	
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. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. 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]</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 learther items, such as shoes, bells and watch-bands should be removed and destroyed.</li> <li>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.</li> <li>The exact threak through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when marking a final choice.</li> <li>Personal hygines 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 molisturiser is recommended.</li> <li>Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: <ul> <li>frequency and duration of contact.</li> <li>chemical resistance of glove material,</li> <li>glove thickness and</li> <li>dive thickness and</li> <li>dives tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).</li> <li>When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 20 minutes according to EN 374, AS/NZS 2161.1 or national equivalent) is recommended.</li> <li>Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.</li> <li>Contaminated gloves should be replaced.</li> </ul> As defined in ASTM F73-96 kin any application, gloves are rated as: <ul> <li>Excellent when breakthrough time &gt; 40 min</li> <li>Good when breakthr</li></ul></li></ul>
	polyvinyl chloride. Gloves should be examined for wear and/ or degradation constantly.
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>

#### 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:

#### **Respiratory protection**

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

Required Minimum	Half-Face	Full-Face	Powered Air
Protection Factor	Respirator	Respirator	Respirator

Homebright All-In-1 Ultra Dishwasher Pack

Material	СРІ
NATURAL RUBBER	A
NITRILE	A

\* 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.

P1 Air-line*	-	PAPR-P1 -
Air-line**	P2	PAPR-P2
-	P3	-
	Air-line*	-
-	Air-line**	PAPR-P3
	Air-line* Air-line** -	Air-line*     -       Air-line**     P2       -     P3       Air-line*     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)

- Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.
- Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- Use approved positive flow mask if significant quantities of dust becomes airborne.
   Try to avoid creating dust conditions.

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

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

#### 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

Inhaled

Inhalation of dusts, generated by the material, during the course of normal handling, may be harmful.

	Evidence shows, or practical experience predicts, that the material produces irritation of the respiratory system, in a substantial number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system. Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.		
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.		
Skin Contact	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. The material may accentuate any pre-existing dermatitis condition Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds 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.		
Eye	When applied to the eye(s) of animals, the material produces severe ocular lesions which are present twenty-four hours or more after instillation. Alkaline salts may be intensely irritating to the eyes and precautions should be taken to ensure direct eye contact is avoided.		
Chronic	Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Limited evidence shows that inhalation of the material is capable of inducing a sensitisation reaction in a significant number of individuals at a greater frequency than would be expected from the response of a normal population. Pulmonary sensitisation, resulting in hyperactive airway dysfunction and pulmonary allergy may be accompanied by fatigue, malaise and aching. Significant symptoms of exposure may persist for extended periods, even after exposure ceases. Symptoms can be activated by a variety of nonspecific environmental stimuli such as automobile exhaust, perfumes and passive smoking. There exists limited evidence that shows that skin contact with the material is capable either of inducing a sensitisation reaction in a significant number of individuals, and/or of producing positive response in experimental animals.		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
Homebright All-In-1 Ultra	Inhalation (None) LC50: 3.68 mg/l (dust&mist)* <sup>[2]</sup>	Not Available	
Dishwasher Pack	Oral (None) LD50: 1000 mg/kg* <sup>[2]</sup>		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
sodium percarbonate			
sodium percarbonate	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Oral (rat) LD50: 893 mg/kg <sup>[1]</sup>	Not Available	
sodium percarbonate	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>		
sodium percarbonate	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Oral (rat) LD50: 893 mg/kg <sup>[1]</sup> TOXICITY	Not Available	
sodium percarbonate	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Oral (rat) LD50: 893 mg/kg <sup>[1]</sup> TOXICITY           dermal (rat) LD50: >2000 mg/kg <sup>[2]</sup>	Not Available IRRITATION	
sodium percarbonate	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Oral (rat) LD50: 893 mg/kg <sup>[1]</sup> TOXICITY	Not Available IRRITATION Eye (rabbit): 100 mg/24h moderate	
	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Oral (rat) LD50: 893 mg/kg <sup>[1]</sup> TOXICITY           dermal (rat) LD50: >2000 mg/kg <sup>[2]</sup> Inhalation (guinea pig) LC50: 0.4 mg/l/2h <sup>[2]</sup>	Not Available         IRRITATION         Eye (rabbit): 100 mg/24h moderate         Eye (rabbit): 100 mg/30s mild         Eye (rabbit): 50 mg SEVERE	
	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Oral (rat) LD50: 893 mg/kg <sup>[1]</sup> TOXICITY           dermal (rat) LD50: >2000 mg/kg <sup>[2]</sup> Inhalation (guinea pig) LC50: 0.4 mg/l/2h <sup>[2]</sup>	Not Available IRRITATION Eye (rabbit): 100 mg/24h moderate Eye (rabbit): 100 mg/30s mild	
	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Oral (rat) LD50: 893 mg/kg <sup>[1]</sup> TOXICITY           dermal (rat) LD50: >2000 mg/kg <sup>[2]</sup> Inhalation (guinea pig) LC50: 0.4 mg/l/2h <sup>[2]</sup>	Not Available         IRRITATION         Eye (rabbit): 100 mg/24h moderate         Eye (rabbit): 100 mg/30s mild         Eye (rabbit): 50 mg SEVERE         Eye: adverse effect observed (irritating) <sup>[1]</sup>	
	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Oral (rat) LD50: 893 mg/kg <sup>[1]</sup> TOXICITY           dermal (rat) LD50: >2000 mg/kg <sup>[2]</sup> Inhalation (guinea pig) LC50: 0.4 mg/l/2h <sup>[2]</sup>	Not Available         IRRITATION         Eye (rabbit): 100 mg/24h moderate         Eye (rabbit): 100 mg/30s mild         Eye (rabbit): 50 mg/30s mild         Eye (rabbit): 50 mg SEVERE         Eye: adverse effect observed (irritating) <sup>[1]</sup> Skin (rabbit): 500 mg/24h mild	
	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Oral (rat) LD50: 893 mg/kg <sup>[1]</sup> TOXICITY         dermal (rat) LD50: >2000 mg/kg <sup>[2]</sup> Inhalation (guinea pig) LC50: 0.4 mg/l/2h <sup>[2]</sup> Oral (rat) LD50: 2800 mg/kg <sup>[2]</sup>	Not Available         IRRITATION         Eye (rabbit): 100 mg/24h moderate         Eye (rabbit): 100 mg/30s mild         Eye (rabbit): 50 mg/30s mild         Eye (rabbit): 50 mg/30s mild         Eye: adverse effect observed (irritating) <sup>[1]</sup> Skin (rabbit): 500 mg/24h mild         Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Oral (rat) LD50: 893 mg/kg <sup>[1]</sup> TOXICITY           dermal (rat) LD50: >2000 mg/kg <sup>[2]</sup> Inhalation (guinea pig) LC50: 0.4 mg/l/2h <sup>[2]</sup> Oral (rat) LD50: 2800 mg/kg <sup>[2]</sup> Toxicity	Not Available         IRRITATION         Eye (rabbit): 100 mg/24h moderate         Eye (rabbit): 100 mg/30s mild         Eye (rabbit): 50 mg SEVERE         Eye: adverse effect observed (irritating) <sup>[1]</sup> Skin (rabbit): 500 mg/24h mild         Skin: no adverse effect observed (not irritating) <sup>[1]</sup> IRRITATION	
sodium carbonate	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Oral (rat) LD50: 893 mg/kg <sup>[1]</sup> <b>TOXICITY</b> dermal (rat) LD50: >2000 mg/kg <sup>[2]</sup> Inhalation (guinea pig) LC50: 0.4 mg/l/2h <sup>[2]</sup> Oral (rat) LD50: 2800 mg/kg <sup>[2]</sup> TOXICITY           dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available         IRRITATION         Eye (rabbit): 100 mg/24h moderate         Eye (rabbit): 100 mg/30s mild         Eye (rabbit): 50 mg/30s mild         Eye (rabbit): 50 mg/24h mild         Skin (rabbit): 500 mg/24h mild         Skin: no adverse effect observed (not irritating) <sup>[1]</sup> IRRITATION         Eye (rabbit): 0.25 mg/24hr-SEVERE	
sodium carbonate	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Oral (rat) LD50: 893 mg/kg <sup>[1]</sup> <b>TOXICITY</b> dermal (rat) LD50: >2000 mg/kg <sup>[2]</sup> Inhalation (guinea pig) LC50: 0.4 mg/l/2h <sup>[2]</sup> Oral (rat) LD50: 2800 mg/kg <sup>[2]</sup> TOXICITY           dermal (rat) LD50: 2800 mg/kg <sup>[2]</sup> Inhalation (guinea pig) LC50: 0.4 mg/l/2h <sup>[2]</sup> Oral (rat) LD50: 2800 mg/kg <sup>[2]</sup> Inhalation (rat) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available         IRRITATION         Eye (rabbit): 100 mg/24h moderate         Eye (rabbit): 100 mg/30s mild         Eye (rabbit): 50 mg/30s mild         Eye (rabbit): 50 mg/30s mild         Eye: adverse effect observed (irritating) <sup>[1]</sup> Skin (rabbit): 500 mg/24h mild         Skin: no adverse effect observed (not irritating) <sup>[1]</sup> IRRITATION         Eye (rabbit): 0.25 mg/24hr-SEVERE         Eye (rabbit): 1% - SEVERE	
sodium carbonate	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Oral (rat) LD50: 893 mg/kg <sup>[1]</sup> <b>TOXICITY</b> dermal (rat) LD50: >2000 mg/kg <sup>[2]</sup> Inhalation (guinea pig) LC50: 0.4 mg/l/2h <sup>[2]</sup> Oral (rat) LD50: 2800 mg/kg <sup>[2]</sup> TOXICITY           dermal (rat) LD50: 2800 mg/kg <sup>[2]</sup> Inhalation (guinea pig) LC50: 0.4 mg/l/2h <sup>[2]</sup> Oral (rat) LD50: 2800 mg/kg <sup>[2]</sup> Inhalation (rat) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available         IRRITATION         Eye (rabbit): 100 mg/24h moderate         Eye (rabbit): 100 mg/30s mild         Eye (rabbit): 50 mg/30s mild         Eye (rabbit): 50 mg/30s mild         Eye: adverse effect observed (irritating) <sup>[1]</sup> Skin (rabbit): 500 mg/24h mild         Skin: no adverse effect observed (not irritating) <sup>[1]</sup> IRRITATION         Eye (rabbit): 0.25 mg/24hr-SEVERE         Eye (rabbit): 1% - SEVERE         Eye (rabbit): 1% - SEVERE         Eye: adverse effect observed (irritating) <sup>[1]</sup>	
sodium carbonate	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Oral (rat) LD50: 893 mg/kg <sup>[1]</sup> <b>TOXICITY</b> dermal (rat) LD50: >2000 mg/kg <sup>[2]</sup> Inhalation (guinea pig) LC50: 0.4 mg/l/2h <sup>[2]</sup> Oral (rat) LD50: 2800 mg/kg <sup>[2]</sup> TOXICITY           dermal (rat) LD50: 2800 mg/kg <sup>[2]</sup> Inhalation (guinea pig) LC50: 0.4 mg/l/2h <sup>[2]</sup> Oral (rat) LD50: 2800 mg/kg <sup>[2]</sup> Inhalation (rat) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available         IRRITATION         Eye (rabbit): 100 mg/24h moderate         Eye (rabbit): 100 mg/30s mild         Eye (rabbit): 50 mg/30s mild         Eye (rabbit): 50 mg SEVERE         Eye: adverse effect observed (irritating) <sup>[1]</sup> Skin (rabbit): 500 mg/24h mild         Skin: no adverse effect observed (not irritating) <sup>[1]</sup> IRRITATION         Eye (rabbit): 0.25 mg/24hr-SEVERE         Eye (rabbit): 1% - SEVERE         Eye: adverse effect observed (irritating) <sup>[1]</sup> Skin (rabbit): 20 mg/24 hr-SEVERE         Eye: adverse effect observed (irritating) <sup>[1]</sup>	

For sodium percarbonate:

SODIUM PERCARBONATE

Sodium percarbonate is an inorganic, water soluble solid of relatively low molecular weight. Dermal absorption is assumed to be low due to the hydrophilic character and the ionic structure of the substance. When sodium percarbonate is getting into contact with body fluids it will dissociate into hydrogen peroxide, carbonate and sodium ions which are all naturally present in the human body. For hydrogen peroxide a high degradation capacity is present in the blood and tissues, making it unlikely that hydrogen peroxide is systemically available. As carbonate is a part of the natural buffer systems in the organism it is unlikely that it is absorbed through sodium percarbonate exposure in amounts that would disturb the normal acid/base balance of the body. Similarly for sodium percarbonate exposure is not expected to contribute significantly to the sodium load of the body. The mode

	of action is characterized by the local irritation potential in particular to mucous membranes. No systemic effects are anticipated because it is unlikely that the substance is systemically available. Acute oral LD50 values ranged between 1034 and 2200 mg/kg bw, while the acute dernal LD50 was > 2000 mg/kg bw. The existing animal data on acute toxicity show that sodium percarbonate has a local effect and that systemic effects are not to be expected. In animal tests a slight irritating effect on the skin was reported for solid sodium percarbonate and it was highly irritating to the rabbit eye (not rinsed). Sodium percarbonate did not have sensitising properties in a test with guinea pigs. The acute studies indicate that most of the acute and local effects can be explained by the release of hydrogen peroxide. Although a repeated dose study is not available for sodium percarbonate, effects can be predicted based on the release of hydrogen peroxide, carbonate and sodium. As it is expected that repeated dose toxicity of sodium percarbonate will mainly be mediated by hydrogen peroxide, no observed adverse effect levels can be defined on the basis of its hydrogen peroxide content. Based on the 90-day drinking water study according to OECD guidelines and GLP with hydrogen peroxide and catalase deficient mice, the predicted NOAEL of sodium percarbonate would be 308 ppm (81 to 115 mg/kg bw/day for males and females, respectively). Data on the mutagenicity will be similar to those of hydrogen peroxide due to the release of hydrogen percobate and GLP, are not in support of significant genotoxicity/mutagenicity under in vivo conditions. Therefore sodium percarbonate is also unlikely to have any in vivo genotoxic potential.
SODIUM CARBONATE	for sodium carbonate: Sodium carbonate has no or a low skin irritation potential but it is considered irritating to the eyes. Due to the alkaline properties an irritation of the respiratory tract is also possible. No valid animal data are available on repeated dose toxicity studies by oral, dermal, inhalation or by other routes for sodium carbonate. A repeated dose inhalation study, which was not reported in sufficient detail, revealed local effects on the lungs which could be expected based on the alkaline nature of the compound. Under normal handling and use conditions neither the concentration of sodium in the blood nor the pH of the blood will be increased and therefore sodium carbonate is not expected to be systemically available in the body. It can be stated that the substance will neither reach the foetus nor reach male and female reproductive organs, which shows that there is no risk for developmental toxicity and no risk for toxicity to reproduction. This was confirmed by a developmental study with rabbits, rats and mice. An <i>in</i> <i>vitro</i> mutagenicity test with bacteria was negative and based on the structure of sodium carbonate no genotoxic effects are expected. The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.
SODIUM DODECYLBENZENESULFONATE	<ul> <li>Linear alkybenzene sulfonates (LAS) are classified as Intrant (XI) with the risk phrases R38 (Intraintg to skin) and R41 (Risk of serious damage to eyes) according to CESIO (CESIO 2000). LAS are not included in Annex 1 of list of dangerous substances of Council Directive 67/548/EEC.</li> <li>Linear alkybenzene sulfonic acids (LABS) are strong acids (pKa-2) are classified as corrosive (R34)</li> <li>Acute toxicity: The available data indicate minimal to moderate toxicity, whil LDS0 values tranging from 500 to 2000 mg/kg body weight (bw). Acute inhaliation data also indicate a lack of significant toxicity. Available darmal exposure data also shows a tack of significant toxicity.</li> <li>LAS are readily absorbed by the gastrointestinal tract after crait administration in animals. LAS are not readily absorbed through the skin . The bulk is metabolises in the laver to sulfophenylic carboxyl acids. The metabolites are excreted primarily via the urine and faeces. The main diministration its are sulfophenylic arboxyl acids. The metabolites are excreted primarily via the urine and faeces. The main diministration to traits of doses near or greater than the LD50 values consisted of reduced voluntary activity, diarrhoea, weakness etc. Death usually courcer within 24 hours of administration. Rate appear to be more sensitive to LAS than mice.</li> <li>LAS and branched alivybenzene sulfonates may cause irritation of the eyes, skin and mucous membranes. LAS are relatively more irritating to the skin in the corresponding branched alixybenzene sulfonates. The potential of LAS is or the sub appear to be more soft tab.</li> <li>Skin be the eyes for table sub indicate that LAS, whice the administration as tas exceed to formulations of LAS.</li> <li>Repet dose toxicity: A feeding sub-yindicated that LAS, whice administration and table sets on the concentration applied. LAS have been classified as irritating to skin at concentration shove 20% according to EU-criteria. Human skin can tolerate to m</li></ul>

closely related compound sodium xylene sulfonate (CAS No. 1300-72-7) included examination of sex organs of both sexes. No treatment

	both maternal and foetal toxicity was the highest do kilogram body weight per day. The conclusion of the <b>Genetic toxicity:</b> There is a fully documented, GLP Guideline (OECE Aberration Test for one of the aromatic sulphonic activition. The Ames test exposes micrograms per liter of the test substance. These is There is an additional, published report of an Ames Exposures up to 10,000 micrograms/plate were do p-toluenesulphonic acid; that is, not mutagenic and There are no in vivo mutagenicity studies for the ar hydrotropes – sodium cumene sulfonate (CAS 283) Guideline mouse micronucleus studies with full doc assays. Disulfonic acids have not been the subject of conce <b>Carcinogenicity:</b> There are no carcinogenicity studies for the aromatic conducted under GLP. Up to 240 mg (rats) and 727	bese tested - 3000 mg/kg bw /day whick e study was no indications of develop 0 471) Ames Test and a fully documer cids, p-toluenesulphonic acid (CAS No d up to 5000 micrograms/plate and th tudies conclude the substance is neith . Test for another of the aromatic sulph ne with and without metabolic activation not cytotoxic. omatic sulphonic acids, but there are 48-53-0) and calcium xylene sulfonat uumentation. Both studies conclude t errn. ic sulphonic acids Two hydrotrope stud r mg (mice) sodium xylenesulfonate/kg ed incidences of mononuclear cell leu ermal hyperplasia may have been rela	mental toxicity including teratogenesis. Ited, GLP Guideline (OECD 473) Chromosome b. 104-15-4). Both tests were conducted with and te chromosome aberration test exposed up to 1902 ter mutagenic norcytotoxic. nonic acids, benzenesulfonic acid (CAS No. 98-11-3). on. The conclusion is the same as for the two in vivo mouse micronucleus studies for the related te (CAS 28088-63-3). Both are GLP-compliant the test substances were not mutagenic in these dies involve 2-year rat and mouse dermal exposures g body weight in 50% ethanol were dosed 5 days per kenia, neoplasms, or nonneoplatic lesions of the skin
SODIUM CARBONATE & SODIUM DODECYLBENZENESULFONATE	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.		
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	✓	Reproductivity	×
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×

SECTION 12 ECOLOGICAL INFORMATION

Mutagenicity

×

#### Toxicity

Homebright All-In-1 Ultra Dishwasher Pack	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
sodium percarbonate	EC50	48	Crustacea	4.9mg/L	2
	NOEC	48	Crustacea	=2mg/L	1
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCI
	LC50	96	Fish	300mg/L	4
sodium carbonate	EC50	48	Crustacea	=176mg/L	1
	EC50	96	Algae or other aquatic plants	242mg/L	4
	NOEC	16	Crustacea	424mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	LC50	96	Fish	1.18mg/L	4
sodium dodecylbenzenesulfonate	EC50	48	Crustacea	2.5mg/L	2
	EC50	96	Algae or other aquatic plants	1.9mg/L	5
	BCF	8	Fish	1.1mg/L	4
	NOEC	672	Fish	0.15mg/L	2

nd: 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

×

Data either not available or does not fill the criteria for classification
 Data available to make classification

Aspiration Hazard

Legend:

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. **DO NOT** discharge into sewer or waterways.

Continued...

## Homebright All-In-1 Ultra Dishwasher Pack

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium carbonate	LOW	LOW
Bioaccumulative potential		
Ingredient	Bioaccumulation	
sodium carbonate	LOW (LogKOW = -0.4605)	
Mobility in soil		
Ingredient	Mobility	
sodium carbonate	HIGH (KOC = 1)	

#### SECTION 13 DISPOSAL CONSIDERATIONS

#### Waste treatment methods Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible. Otherwise: F 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. Product / Packaging disposal • Where possible retain label warnings and SDS and observe all notices pertaining to the product. 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.

#### **SECTION 14 TRANSPORT INFORMATION**

# Labels Required Marine Pollutant HAZCHEM 2Z

#### Land transport (ADG)

UN number	3077	
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains sodium dodecylbenzenesulfonate)	
Transport hazard class(es)	Class 9 Subrisk Not Applicable	
Packing group	III	
Environmental hazard	Environmentally hazardous	
Special precautions for user	Special provisions274 331 335 375 AU01Limited quantity5 kg	

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082

are not subject to this Code when transported by road or rail in;

(a) packagings; (b) IBCs; or

(c) any other receptacle not exceeding 500 kg(L). - Australian Special Provisions (SP AU01) - ADG Code 7th Ed.

Air transport (ICAO-IATA / DGR)

UN number	3077
UN proper shipping name	Environmentally hazardous substance, solid, n.o.s. * (contains sodium dodecylbenzenesulfonate)
Transport hazard class(es)	ICAO/IATA Class9ICAO / IATA SubriskNot ApplicableERG Code9L
Packing group	III
Environmental hazard	Environmentally hazardous

	Special provisions	A97 A158 A179 A197
	Cargo Only Packing Instructions	956
	Cargo Only Maximum Qty / Pack	400 kg
Special precautions for user	Passenger and Cargo Packing Instructions	956
	Passenger and Cargo Maximum Qty / Pack	400 kg
	Passenger and Cargo Limited Quantity Packing Instructions	Y956
	Passenger and Cargo Limited Maximum Qty / Pack	30 kg G

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

UN number	3077	
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains sodium dodecylbenzenesulfonate)	
Transport hazard class(es)	IMDG Class     9       IMDG Subrisk     Not Applicable	
Packing group	II	
Environmental hazard	Marine Pollutant	
Special precautions for user	EMS NumberF-A , S-FSpecial provisions274 335 966 967 969Limited Quantities5 kg	

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 PERCARBONATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -
Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes	Schedule 6
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	International Air Transport Association (IATA) Dangerous Goods Regulations
Australia Inventory of Chemical Substances (AICS)	International Maritime Dangerous Goods Requirements (IMDG Code)
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5	United Nations Recommendations on the Transport of Dangerous Goods Model Regulations
SODIUM CARBONATE IS FOUND ON THE FOLLOWING REGULATORY LISTS	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	IMO IBC Code Chapter 17: Summary of minimum requirements
Australia Inventory of Chemical Substances (AICS)	IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk
GESAMP/EHS Composite List - GESAMP Hazard Profiles	
SODIUM DODECYLBENZENESULFONATE IS FOUND ON THE FOLLOWING REGULATO	ORY LISTS

# Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5  $\,$ 

IMO IBC Code Chapter 17: Summary of minimum requirements International Air Transport Association (IATA) Dangerous Goods Regulations International Maritime Dangerous Goods Requirements (IMDG Code) United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

#### **National Inventory Status**

National Inventory	Status
Australia - AICS	Yes
Canada - DSL	Yes
Canada - NDSL	No (sodium dodecylbenzenesulfonate; sodium percarbonate; sodium carbonate)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (sodium percarbonate)
Vietnam - NCI	Yes
Russia - ARIPS	Yes

Legend:

Yes = All CAS declared ingredients are on the inventory

No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

## **SECTION 16 OTHER INFORMATION**

Revision Date	11/02/2020
Initial Date	10/02/2020

## SDS Version Summary

Version	Issue Date	Sections Updated
3.1.1.1	11/02/2020	Chronic Health

#### Other information

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 Limit₀ 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 TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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