

innovations in nucleic acid isolation

Solution II		
Omega Bio-tek		Chemwatch Hazard Alert Code: 3
Version No: 2.7	A HazCom Standard (2012) requirements	Issue Date: <b>03/01/2023</b> Print Date: <b>03/01/2023</b> S.GHS.USA.EN
SECTION 1 Identification		
Product Identifier		
Product name	Solution II	
Synonyms	Not Available	
Other means of identification	Not Available	
Recommended use of the cher	nical and restrictions on use	
Relevant identified uses	Laboratory Use.	
Name, address, and telephone	number of the chemical manufacturer, importer, or other re	esponsible party
Registered company name	Omega Bio-tek	Omega Bio-tek
Address	400 Pinnacle Way, Suite 450 Georgia 30071 United States	Siriusdreef, Transpolis Park 17-27 2131 Netherlands
Telephone	+1 770 931 8400	+31 20 809 3697
Fax	Not Available	Not Available
Website	www.omegabiotek.com	http://www.omegabiotek.com/
Email	info@omegabiotek.com	info@omegabiotek.com
Emergency phone number		
Association / Organisation	CHEMTREC	
Emergency telephone numbers	North America: +1 800 424 9300	
Other emergency telephone numbers	Outside North America: +1 703 527 3887	
SECTION 2 Hazard(s) identi Classification of the substance NFPA 704 diamond	e or mixture	
of this S Health F	he hazard category numbers found in GHS classification in section 2 DDS are NOT to be used to fill in the NFPA 704 diamond. Blue = Red = Fire Yellow = Reactivity White = Special (Oxidizer or water substances)	

Classification Serious Eye Damage/Eye Irritation Category 2A

Label elements

Hazard pictogram(s)



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Solution II

Signal word	Warning
Hazard statement(s)	
H319	Causes serious eye irritation.

### Hazard(s) not otherwise classified

Not Applicable

### Precautionary statement(s) Prevention

P280	Wear protective gloves, protective clothing, eye protection and face protection.
P264	Wash all exposed external body areas thoroughly after handling.

### 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.
P337+P313	If eye irritation persists: Get medical advice/attention.

## Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

## **SECTION 3 Composition / information on ingredients**

### Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name
Not Available	1-5	Anionic detergent
1310-73-2	0.1-1	sodium hydroxide

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

## **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>Wash out immediately with fresh 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>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	If skin contact occurs: <ul> <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, 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>

### Most important symptoms and effects, both acute and delayed

See Section 11

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

Treat symptomatically.

### **SECTION 5 Fire-fighting 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 None known.

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### Solution II

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>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>May emit corrosive fumes.</li> </ul>

### **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>Environmental hazard - contain spillage.</li> <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>
Major Spills	<ul> <li>Environmental hazard - contain spillage.</li> <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>

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## **SECTION 7 Handling and storage**

### Precautions for safe handling

eersonal contact, including inhalation. ective clothing when risk of exposure occurs. vell-ventilated area. tact with moisture. tact with incompatible materials. ndling, <b>DO NOT</b> eat, drink or smoke. tainers securely sealed when not in use. sical damage to containers. ash hands with soap and water after handling. hes should be laundered separately. Launder contaminated clothing before re-use. occupational work practice. manufacturer's storage and handling recommendations contained within this SDS. ere should be regularly checked against established exposure standards to ensure safe working conditions are maintained. allow clothing wet with material to stay in contact with skin

### Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	None known

## **SECTION 8 Exposure controls / personal protection**

INGREDIENT DATA							
Source	Ingredient	Material name	TWA	STEL	Peak		Notes
JS OSHA Permissible Exposure Limits (PELs) Table Z-1	sodium hydroxide	Sodium hydroxide	2 mg/m3	Not Availab	le Not Av	vailable	Not Available
US NIOSH Recommended Exposure Limits (RELs)	sodium hydroxide	Sodium hydroxide	Not Available	Not Availab	le 2 mg/i	′m3	Not Available
Emergency Limits							
ngredient	TEEL-1		TEEL-2		TEEL-3		
sodium hydroxide	Not Available		Not Available		Not Availa	able	
ngredient	Original IDLH			Revised IDLH			
odium hydroxide	10 mg/m3			Not Available			
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 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 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	
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>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</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 break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when</li> </ul>

	<ul> <li>making a final choice.</li> <li>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 moisturiser 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 durability of glove type is dependent on usage. Important factors in the selection of gloves include:</li> <li>frequency and durability of glove material,</li> <li>glove thickness and</li> </ul> </li> <li>detecting gloves 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 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.</li> <li>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.</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> <li>As defined in ASTM F-739-96 in any application, gloves are rated as:</li> <li>Excellent when breakthrough time &gt; 20 min</li> <li>For eneral applications, gloves with a thickness typically greater than 0.35 mm, are recommended.</li> <li>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 mill be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the glove selection of the outset.</li> <li>Note bickness may also vary depending on the glove sof varying thickness may be</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>

## 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:

So	lution	I	I
30	lution	I	I

Material	CPI
BUTYL	A
NAT+NEOPR+NITRILE	A
NATURAL RUBBER	A
NATURAL+NEOPRENE	A
NEOPRENE	A
NEOPRENE/NATURAL	A
NITRILE	A
NITRILE+PVC	A
PE	A
PE/EVAL/PE	A
PVC	A
SARANEX-23	A
SARANEX-23 2-PLY	A
TEFLON	A
VITON/CHLOROBUTYL	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.

## **SECTION 9 Physical and chemical properties**

Continued...

Appearance	Not Available		
Physical state	Liquid	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 Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	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	Immiscible	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

	The material is not thought to produce adverse health effe	cts or irritation of the respiratory t	ract (as classified by EC Directives using animal
	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.		
Indestion	The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.		
Skin Contact	This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition 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.		
Eye	This material can cause eye irritation and damage in some persons.		
	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
Solution II	Not Available	Not Available	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
sodium hydroxide	Dermal (rabbit) LD50: 1350 mg/kg <sup>[2]</sup>	Eye (rabbit): 0.0	5 mg/24h SEVERE
	Oral (Rabbit) LD50; 325 mg/kg <sup>[1]</sup>	Eye (rabbit):1 m	

		Eye (rabbit):1 mg/	30s rinsed-SEVERE
		Eye: adverse effe	ct observed (irritating) <sup>[1]</sup>
		Skin (rabbit): 500	mg/24h SEVERE
		Skin: adverse effe	ect observed (corrosive) <sup>[1]</sup>
Legend:	1. Value obtained from Europe ECHA Registered Substa specified data extracted from RTECS - Register of Toxic	•	ed from manufacturer's SDS. Unless otherwise
Solution II	For alkyl sulfates; alkane sulfonates and alpha-olefin sul Most chemicals of this category are not defined substan- biological pathways result in structurally similar breakdow environmental behavior and essentially identical hazard Acute toxicity: These substances are well absorbed after chemicals are distributed mainly to the liver. In animals, signs of poisoning by mouth include lethargy from skin contact caused irritation, tremor, tonic-clonic of the greatest effect. In eye irritation tests, C-12 containing alkyl sulfates at gr on the cornea. With increasing alkyl chain length, the irri Animal studies have not shown alkyl sulfates and C14-1 evidence to suggest sodium lauryl sulfate causes sensiti accompanied by fatigue, malaise and aching. Significant variety of non-specific environmental stimuli, such as exi respiratory allergies, and in some cases, minor skin aller inflammation was sensitization in predisposed individual Repeat dose toxicity: The liver seems to be the only org: increase in liver weight and enlargement of liver cells be Genetic toxicity: Alkyl sulfates and alkyl-olefin sulfonates Cancer-causing potential: Animal testing, these substance mother. Developmental toxicity: Alkane sulfonates are not conside	ces, but mixtures of homologues with wn products, and are, together with th profiles with regard to human health. r ingestion; penetration through the s v, hair standing up, decreased motor a onvulsions, breathing failure, and wei reater than 10% concentration were s tating potential decreases, and the lo 8 alpha-olefin sulfonates to cause sk ization of the lung, resulting in hypera t symptoms of exposure can persist f haust, perfumes and passive smokin rgies. Repeated skin contact with sor s. an that is affected by repeated expos ing seen. s do not appear to cause mutations o alkyl sulfates and alpha-olefin sulfon se only caused harm to the foetus and	he surfactant properties, responsible for similar kin is however, poor. After absorption, these activity and breathing rate, and diarrhea. Poisoning ight loss. The C-12-akyl sulfate sodium salt caused everely irritating and produced irreversible effects onger species are only mildly irritant. in sensitization. However there is anecdotal active airway dysfunction and lung allergy, or more than two years, and can be activated by a g. Airborne sulfonates may be responsible for ne sulfonated surfactants has produced skin ure, with elevated levels of liver enzymes, an r genetic toxicity. tates do not have cancer-causing potential.
SODIUM HYDROXIDE	Asthma-like symptoms may continue for months or even known as reactive airways dysfunction syndrome (RADS criteria for diagnosing RADS include the absence of pre- asthma-like symptoms within minutes to hours of a docu airflow pattern on lung function tests, moderate to sever lymphocytic inflammation, without eosinophilia. RADS ( the concentration of and duration of exposure to the irritar result of exposure due to high concentrations of irritating disorder is characterized by difficulty breathing, cough an The material may produce severe irritation to the eye ca produce conjunctivitis. The material may cause severe skin irritation after prolou production of vesicles, scaling and thickening of the skin	s) which can occur after exposure to vious airways disease in a non-atopic imented exposure to the irritant. Othe e bronchial hyperreactivity on methac or asthma) following an irritating inhal ating substance. On the other hand, i g substance (often particles) and is co nd mucus production. using pronounced inflammation. Rep nged or repeated exposure and may	high levels of highly irritating compound. Main c individual, with sudden onset of persistent er criteria for diagnosis of RADS include a reversible choline challenge testing, and the lack of minimal ation is an infrequent disorder with rates related to ndustrial bronchitis is a disorder that occurs as a ompletely reversible after exposure ceases. The reated or prolonged exposure to irritants may produce on contact skin redness, swelling, the
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	×
Respiratory or Skin	×	STOT - Repeated Exposure	x
sensitisation Mutagenicity	×	Aspiration Hazard	×

**SECTION 12 Ecological information** 

## Toxicity

Solution II	Endpoint	Test Duration (hr)	Species		Value	Source
	Not Available	Not Available	Not Available		Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Val	ue	Source
sodium hydroxide	EC50	48h	Crustacea	34.	59-47.13mg/l	4
	EC50(ECx)	48h	Crustacea	34.	59-47.13mg/l	4
	LC50	96h	Fish	144	-267mg/l	4
Legend:	Ecotox databa	1. IUCLID Toxicity Data 2. Europe ECHA Reg se - Aquatic Toxicity Data 5. ECETOC Aquatic tion Data 8. Vendor Data				

On the basis of available evidence concerning either toxicity, persistence, potential to accumulate and or observed environmental fate and behaviour, the material may present a danger, immediate or long-term and /or delayed, to the structure and/ or functioning of natural ecosystems. Harmful to aquatic organisms.

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Solution II

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium hydroxide	LOW	LOW
Bioaccumulative potential		
Ingredient	Bioaccumulation	
sodium hydroxide	LOW (LogKOW = -3.8796)	
Mobility in soil		
Ingredient	Mobility	
sodium hydroxide	LOW (KOC = 14.3)	

### **SECTION 13 Disposal considerations**

Waste treatment methods	
Product / Packaging disposal	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. A Hierarchy of Controls seems to be common - the user should investigate: Reduction 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. Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).

### **SECTION 14 Transport information**

Labels Required	
Marine Pollutant	NO

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

### Air transport (ICAO-IATA / DGR): 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

### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
Anionic detergent	Not Available
sodium hydroxide	Not Available

### Transport in bulk in accordance with the ICG Code

Product name	Ship Type
Anionic detergent	Not Available
sodium hydroxide	Not Available

## **SECTION 15 Regulatory information**

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

### sodium hydroxide is found on the following regulatory lists

US - Massachusetts - Right To Know Listed Chemicals

US CWA (Clean Water Act) - List of Hazardous Substances

US DOE Temporary Emergency Exposure Limits (TEELs)

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

### Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

## Section 311/312 hazard categories

Flammable (Gases, Aerosols, Liquids, or Solids)	No
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	No
Acute toxicity (any route of exposure)	No
Reproductive toxicity	No
Skin Corrosion or Irritation	No
Respiratory or Skin Sensitization	No
Serious eye damage or eye irritation	Yes
Specific target organ toxicity (single or repeated exposure)	No
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

Name	Reportable Quantity in Pounds (Ib)	Reportable Quantity in kg
sodium hydroxide	1000	454

## State Regulations

US. California Proposition 65

# None Reported

## National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (sodium hydroxide)	
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	Yes	
Vietnam - NCI	Yes	
Russia - FBEPH	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. These ingredients may be exempt or will require registration.	

## **SECTION 16 Other information**

Revision Date	03/01/2023
Initial Date	22/01/2021

## SDS Version Summary

Version	Date of Update	Sections Updated
1.7	02/01/2023	Physical Properties, Use

### 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 Limit. IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard 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** AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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