

Apollo Scientific

Part Number: OR21193 Version No: 3.5 Safety Data Sheet

Chemwatch Hazard Alert Code: 2

Issue Date: 29/06/2023 Print Date: 29/06/2023 S.GHS.GB-NIR.EN

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

Product name	3,5-dibromo-2-hydroxybenzaldehyde		
Chemical Name	5-dibromosalicylaldehyde		
Synonyms	Not Available		
Chemical formula	C7-H4-Br2-O2		
Other means of identification	Not Available		
CAS number	90-59-5*		

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

Relevant identified uses

Not Available

Details of the manufacturer or supplier of the safety data sheet

Registered company name	Apollo Scientific	Apollo Scientific Itd	
Address	Whitefield Road, Bredbury SK62QR United Kingdom	Whitefield Road, Bredbury SK6 2QR United Kingdom (NI)	
Telephone	01614060505	+44(0) 161 406 0505	
Fax	0161 406 0506	Not Available	
Website	http://www.apolloscientific.co.uk/	apolloscientific.co.uk	
Email	sales@apolloscientific.co.uk	sales@apolloscientific.co.uk	

Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

SECTION 2 Hazards identification

Classification of the substance or mixture

Classification according to	H312 - Acute Toxicity (Dermal) Category 4, H400 - Hazardous to the Aquatic Environment Acute Hazard Category 1, H335 -
regulation (EC) No	Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, H302 - Acute Toxicity (Oral) Category
1272/2008 [CLP] and	4, H315 - Skin Corrosion/Irritation Category 2, H319 - Serious Eye Damage/Eye Irritation Category 2, H317 - Sensitisation (Skin)
amendments ^[1]	Category 1
Legend:	1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements



Hazard statement(s)

H312	armful in contact with skin.		
H400	ery toxic to aquatic life.		
H335	May cause respiratory irritation.		
H302	Harmful if swallowed.		
H315	Causes skin irritation.		
H319	Causes serious eye irritation.		
H317	May cause an allergic skin reaction.		

Precautionary statement(s) Prevention

P271	P271 Use only outdoors or in a well-ventilated area.		
P280	Wear protective gloves, protective clothing, eye protection and face protection.		
P261	Avoid breathing dust/fumes.		
P264	Wash all exposed external body areas thoroughly after handling.		
P270	Do not eat, drink or smoke when using this product.		
P273	Avoid release to the environment.		
P272	Contaminated work clothing should not be allowed out of the workplace.		

Precautionary statement(s) Response

P302+P352	IF ON SKIN: Wash with plenty of water.		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P333+P313	f skin irritation or rash occurs: Get medical advice/attention.		
P337+P313	If eye irritation persists: Get medical advice/attention.		
P362+P364	Take off contaminated clothing and wash it before reuse.		
P391	Collect spillage.		
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.		
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
P330	Rinse mouth.		

Precautionary statement(s) Storage

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

Precautionary statement(s) Disposal

P501

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

CAS No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M-Factor
90-59-5*	100	<u>3.5-dibromo-</u> 2-hydroxybenzaldehyde	Acute Toxicity (Dermal) Category 4, Hazardous to the Aquatic Environment Acute Hazard Category 1, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2,	Not Available

CAS No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M-Factor
			Serious Eye Damage/Eye Irritation Category 2, Sensitisation (Skin) Category 1; H312, H400, H335, H302, H315, H319, H317 ^[1]	

Legend: 1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from C&L; * EU IOELVs available; [e] Substance identified as having endocrine disrupting properties

Mixtures

See section above for composition of Substances

SECTION 4 First aid measures

Description of first aid measures

Eye Contact	 If this product comes in contact with the eyes: Wash out immediately with fresh running water. 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. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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

None known.

Advice for firefighters

Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	 Non combustible. Not considered a significant fire risk, however containers may burn. May emit corrosive fumes.

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	 Clean up all spills immediately. Avoid breathing dust and contact with skin and eyes. Wear protective clothing, gloves, safety glasses and dust respirator. Use dry clean up procedures and avoid generating dust. Sweep up, shovel up or Vacuum up (consider explosion-proof machines designed to be grounded during storage and use). Place spilled material in clean, dry, sealable, labelled container.
Major Spills	 Moderate hazard. CAUTION: Advise personnel in area. Alert Emergency Services and tell them location and nature of hazard. Control personal contact by wearing protective clothing. Prevent, by any means available, spillage from entering drains or water courses. Recover product wherever possible. 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. ALWAYS: Wash area down with large amounts of water and prevent runoff into drains. If contamination of drains or waterways occurs, advise Emergency Services.

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

SECTION 7 Handling and storage

Precautions for safe handling

	Avoid all personal contact, including inhalation.
	 Wear protective clothing when risk of exposure occurs.
	 Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area.
	 Prevent concentration in hollows and sumps.
	 DO NOT enter confined spaces until atmosphere has been checked.
	 DO NOT enter commed spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils.
	 Avoid contact with incompatible materials.
	 When handling, DO NOT eat, drink or smoke.
Safe handling	 Keep containers securely sealed when not in use.
	 Avoid physical damage to containers.
	 Always wash hands with soap and water after handling.
	 Work clothes should be laundered separately. Launder contaminated clothing before re-use.
	 Use good occupational work practice.
	 Observe manufacturer's storage and handling recommendations contained within this SDS.
	 Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
	Store in original containers.
	Keep containers securely sealed.
	Store in a cool, dry area protected from environmental extremes.
	Store away from incompatible materials and foodstuff containers.
	Protect containers against physical damage and check regularly for leaks.
Other information	Observe manufacturer's storage and handling recommendations contained within this SDS.
	For major quantities:
	Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams).
	Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities.

Conditions for safe storage, including any incompatibilities

Suitable container	 Lined metal can, lined metal pail/ can. Plastic pail. Polyliner drum.
	Packing as recommended by manufacturer.
	Check all containers are clearly labelled and free from leaks.

Storage incompatibility None known

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
3,5-dibromo- 2-hydroxybenzaldehyde	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
3,5-dibromo- 2-hydroxybenzaldehyde	Not Available		Not Available	

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
3,5-dibromo- 2-hydroxybenzaldehyde	E	≤ 0.01 mg/m³
Notes:	Occupational exposure banding is a process of assigning chemica potency and the adverse health outcomes associated with exposu band (OEB), which corresponds to a range of exposure concentra	ire. The output of this process is an occupational exposure

Exposure controls

	Engineering controls are used to remove a hazard or place engineering controls can be highly effective in protecting w provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job act Enclosure and/or isolation of emission source which keeps that strategically "adds" and "removes" air in the work envi designed properly. The design of a ventilation system must Employers may need to use multiple types of controls to pu	vorkers and will typically be independent of ivity or process is done to reduce the risk. s a selected hazard "physically" away from ronment. Ventilation can remove or dilute a t match the particular process and chemica	worker interactions to the worker and ventilatio an air contaminant if
	 Local exhaust ventilation is required where solids are harden are exhaust proportion will be powdered by mutual harden in the spite of local exhaust an adverse concentration of considered. 	friction.	
	Such protection might consist of:		
	 (a): particle dust respirators, if necessary, combined with an absorption cartridge; (b): filter respirators with absorption cartridge or canister of the right type; 		
		f the right type;	
	(b): filter respirators with absorption cartridge or canister of (c): fresh-air hoods or masks.		
Appropriate engineering	(b): filter respirators with absorption cartridge or canister of(c): fresh-air hoods or masks.Air contaminants generated in the workplace possess vary	ring "escape" velocities which, in turn, dete	rmine the "capture
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	 (b): filter respirators with absorption cartridge or canister of (c): fresh-air hoods or masks. Air contaminants generated in the workplace possess vary velocities" of fresh circulating air required to effectively rem 	ring "escape" velocities which, in turn, deter nove the contaminant.	Air Speed:
	 (b): filter respirators with absorption cartridge or canister of (c): fresh-air hoods or masks. Air contaminants generated in the workplace possess vary velocities" of fresh circulating air required to effectively rem Type of Contaminant: direct spray, spray painting in shallow booths, drum filling 	ring "escape" velocities which, in turn, deter nove the contaminant. , conveyer loading, crusher dusts, gas)	Air Speed: 1-2.5 m/s (200-500
	 (b): filter respirators with absorption cartridge or canister of (c): fresh-air hoods or masks. Air contaminants generated in the workplace possess vary velocities" of fresh circulating air required to effectively rem Type of Contaminant: direct spray, spray painting in shallow booths, drum filling discharge (active generation into zone of rapid air motion) grinding, abrasive blasting, tumbling, high speed wheel generation 	ring "escape" velocities which, in turn, deter nove the contaminant. , conveyer loading, crusher dusts, gas)	Air Speed: 1-2.5 m/s (200-500 f/min.) 2.5-10 m/s (500-20
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	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 4-10 m/s (800-2000 f/min) for extraction of crusher dusts generated 2 metres 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.
Individual protection measures, such as personal protective equipment	
Eye and face protection	 Safety glasses with side shields. Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent] 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].
Skin protection	See Hand protection below
Hands/feet protection	 Normaterial 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. 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 moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: - requency and duration of contact. - chemical resistance of glove material, egiove thickness and - destinity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). - When only bird contact is expected, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.1.0 r 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. - Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. - Some glove material degrades - For when breakthrough time < 20 mini - For when breakthrough

	Gloves should be examined for wear and/ or degradation constantly.
Body protection	See Other protection below
Other protection	 Overalls. P.V.C apron. Barrier cream. Skin cleansing cream. Eye wash unit.

Respiratory protection

Type -P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

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

* - Negative pressure demand ** - Continuous flow

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

· 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.

• Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

· Use approved positive flow mask if significant quantities of dust becomes airborne.

 \cdot Try to avoid creating dust conditions.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Not Available		
Physical state	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 Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	80-84	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 Applicable

Not Available	Volatile Component (%vol)	Not Available	Lower Explosive Limit (%)	
Not Available	Gas group	Not Available	Vapour pressure (kPa)	
Not Available	pH as a solution (1%)	Not Available	Solubility in water	
Not Available	VOC g/L	Not Available	Vapour density (Air = 1)	

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.
Eye	This material can cause eye irritation and damage in some persons.
Chronic	Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.

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

3,5-dibromo- 2-hydroxybenzaldehyde	The following information refers to contact allerg Contact allergies quickly manifest themselves a pathogenesis of contact eczema involves a cell- skin reactions, e.g. contact urticaria, involve ant simply determined by its sensitisation potential: equally important. A weakly sensitising substand stronger sensitising potential with which few ind noteworthy if they produce an allergic test react	s contact eczema, more rarely as mediated (T lymphocytes) immur ibody-mediated immune reactions the distribution of the substance a ce which is widely distributed can ividuals come into contact. From a	urticaria or Quincke's oedema. The ne reaction of the delayed type. Other allergic s. The significance of the contact allergen is not and the opportunities for contact with it are be a more important allergen than one with a clinical point of view, substances are
Acute Toxicity	*	Carcinogenicity	×
Skin Irritation/Corrosion	¥	Reproductivity	×
Serious Eye Damage/Irritation	*	STOT - Single Exposure	*
Respiratory or Skin sensitisation	~	STOT - Repeated Exposure	×

Data available to make classification

SECTION 12 Ecological information

Toxicity

Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity
	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

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
3,5-dibromo- 2-hydroxybenzaldehyde	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
3,5-dibromo- 2-hydroxybenzaldehyde	LOW (LogKOW = 3.787)

Mobility in soil

Ingredient	Mobility
3,5-dibromo- 2-hydroxybenzaldehyde	LOW (KOC = 144.6)

SECTION 13 Disposal considerations

Waste treatment methods Product / Packaging disposal • Containers may still present a chemical hazard/ danger when empty. • Return to supplier for reuse/ recycling if possible. Otherwise: • 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. • Where possible retain label warnings and SDS and observe all notices pertaining to the product. • Recycle wherever possible or consult manufacturer for recycling options. • Consult State Land Waste Management Authority for disposal. • Bury residue in an authorised landfill. • Recycle containers if possible, or dispose of in an authorised landfill. • Recycle containers if possible, or dispose of in an authorised landfill. • Recycle containers if possible, or dispose of in an authorised landfill. • Recycle containers if possible, or dispose of in an authorised landfill. • Recycle containers if possible, or dispose of in an authorised landfill. • Recycle containers if possible, or dispose of in an authorised landfill. • Recycle containers if possible, or dispose of in an authorised landfill. • Recycle containers if possible, or dispose of in an authorised landfill. • Recycle containers if possible, or dispose of in an authorised landfill.

SECTION 14 Transport information

Labels Required

Marine Pollutant



Land transport (ADR): 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

Inland waterways transport (ADN): 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
3,5-dibromo- 2-hydroxybenzaldehyde	Not Available

Transport in bulk in accordance with the IGC Code

Product name	Ship Type
3,5-dibromo- 2-hydroxybenzaldehyde	Not Available

SECTION 15 Regulatory information

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

3,5-dibromo-2-hydroxybenzaldehyde is found on the following regulatory lists

Europe EC Inventory

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	No (3,5-dibromo-2-hydroxybenzaldehyde)
Canada - DSL	No (3,5-dibromo-2-hydroxybenzaldehyde)
Canada - NDSL	No (3,5-dibromo-2-hydroxybenzaldehyde)
China - IECSC	No (3,5-dibromo-2-hydroxybenzaldehyde)
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (3,5-dibromo-2-hydroxybenzaldehyde)
Korea - KECI	No (3,5-dibromo-2-hydroxybenzaldehyde)
New Zealand - NZIoC	No (3,5-dibromo-2-hydroxybenzaldehyde)
Philippines - PICCS	No (3,5-dibromo-2-hydroxybenzaldehyde)
USA - TSCA	No (3,5-dibromo-2-hydroxybenzaldehyde)
Taiwan - TCSI	Yes
Mexico - INSQ	No (3,5-dibromo-2-hydroxybenzaldehyde)
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	29/06/2023
Initial Date	30/06/2023

SDS Version Summary

Version	Date of Update	Sections Updated
2.5	29/06/2023	Hazards identification - Classification, Korean MSDS Number, Identification of the substance / mixture and of the company / undertaking - Supplier Information

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.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

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

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure	
Acute Toxicity (Dermal) Category 4, H312	Expert judgement	
Hazardous to the Aquatic Environment Acute Hazard Category 1, H400	Expert judgement	
Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, H335	Expert judgement	
Acute Toxicity (Oral) Category 4, H302	Expert judgement	
Skin Corrosion/Irritation Category 2, H315	Expert judgement	
Serious Eye Damage/Eye Irritation Category 2, H319	Expert judgement	
Sensitisation (Skin) Category 1, H317	Calculation method	

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