

# Safety Data Sheet

# according to Regulation (EC) 1907/2006 (REACH)

Revision date: 1/22/2021

Supercedes date: 9/30/2020

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

1.1. Product identifier:

Product trade name:

Company product number:

REACH registration number:

Substance name:

Substance identification number:

KGUARDSB

Not relevant

Sodium benzoate

EC 208-534-8

Other means of identification: Sodium benzoic acid; Benzoic acid sodium salt

1.2. Relevant identified uses of the substance or mixture and uses advised against:

Uses: Biocide.
Uses advised against: None identified

1.3. Details of the supplier of the safety data sheet:

Manufacturer/Supplier: Emerald Kalama Chemical B.V.

Havennr. 4322 - Montrealweg 15

3197 KH Rotterdam-Botlek - THE NETHERLANDS

Telephone: +31 88 888 0512/-0509 purox.info@emeraldmaterials.com

For further information about this SDS: Email: product.compliance@emeraldmaterials.com

1.4. Emergency telephone number:

ChemTel (24 hours): 1-800-255-3924 (USA); +1-813-248-0585 (outside USA).

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture:

### Product classification according to Regulation (EC) 1272/2008 (CLP) as amended:

Eye Irritation, category 2, H319

See Section 2.2 for full text of H (Hazard) statements (EC 1272/2008).

#### 2.2. Label elements:

# Product labeling according to Regulation (EC) 1272/2008 (CLP) as amended:

Hazard pictogram(s):



# Signal word:

Warning

# Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements:

P264 Wash skin thoroughly after handling. P280 Wear eye protection/face protection.

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.

Supplemental information:

No Additional Information

Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Annex III and ECHA Guidance on Labelling and Packaging. Regulations in individual countries/regions may determine which statements are required on the product label. See product label for specifics.

# 2.3. Other hazards:

PBT/vPvB criteria: This product does not meet the PBT and vPvB classification criteria.

**Endocrine disrupting properties:** No specific information available.

Other hazards: May form explosible dust-air mixture if dispersed.

See Section 11 for toxicological information.

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

#### 3.1. Substance:

CAS-No.Chemical NameWeight%ClassificationH Statements0000532-32-1Sodium benzoate100Eye Irrit. 2H319

CAS No. Chemical Name Weight% PEACH Pagistration No. EC/List

CAS-No.Chemical NameWeight%REACH Registration No.EC/List Number0000532-32-1Sodium benzoate100Not relevant208-534-8CAS-No.Chemical NameM-factorSCLsATE

0000532-32-1 Sodium benzoate N/A N/E Not Available

See Section 16 for full text of H (Hazard) statements (EC 1272/2008).

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures:

**General:** If irritation or other symptoms occur or persist from any route of exposure, remove the affected individual from the area: see a physician/get medical attention.

**Eye contact:** Immediately flush eyes with plenty of clean water for an extended time, not less than fifteen (15) minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion. If eye irritation persists: Get medical advice/attention.

Skin contact: Wash the affected area thoroughly with plenty of soap and water. Get medical attention if symptoms occur.

**Inhalation:** If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out the mouth with water. Get medical attention immediately.

Protection of first aid responders: Wear proper personal protective clothing and equipment.

### 4.2. Most important symptoms and effects, both acute and delayed:

Coughing, Irritation. Preexisting sensitization, skin and/or respiratory disorders or diseases may be aggravated. See section 11 for additional information.

# 4.3. Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media:

**Suitable:** Use water spray, dry chemical, or foam. Carbon dioxide may be ineffective on larger fires due to a lack of cooling capacity which may result in reignition.

Unsuitable: Avoid hose streams or any method which will create dust clouds.

# 5.2. Special hazards arising from the substance or mixture:

**Unusual fire/explosion hazards:** Concentrated dust/air combinations may produce explosive conditions. As with all organic dusts, fine particles suspended in air in critical proportions and in the presence of an ignition source may ignite and/or explode. Dust may be sensitive to ignition by electrostatic discharge, electrical arcs, sparks, welding torches, cigarettes, open flame, or other significant heat sources. As a precaution, implement standard safety measures for handling finely divided organic powders. See Section 7 for suggested measures.

**Hazardous combustion products:** Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See section 10 (10.6 Hazardous decomposition products) for additional information.

#### 5.3. Advice for firefighters:

Water spray (fog) can be used to absorb heat and to cool and protect surrounding exposed material. Avoid hose streams or any method which will create dust clouds. Wear self-contained breathing apparatus (SCBA) equipped with a full facepiece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations.

See section 9 for additional information.

# **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures:

See Section 8 for recommendations on the use of personal protective equipment. If spilled in an enclosed area, ventilate. Avoid raising powdered material due to explosion hazard. Use spark-proof and explosion-proof equipment. If inhalation of dust cannot be avoided, wear an approved particulate respirator. Personal Protective Equipment must be worn.

# 6.2. Environmental precautions:

Do not flush product into public sewer, water systems or surface waters.

#### 6.3. Methods and material for containment and cleaning up:

Contain spill. Wear proper personal protective clothing and equipment. Using care to avoid dust generation, vacuum or sweep into a closed container for reuse or disposal. Use approved industrial vacuum cleaner for removal. Avoid causing dust. Place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing and launder before reuse.

#### 6.4. References to other sections:

See Section 8 for recommendations on the use of personal protection and Section 13 for waste disposal.

# SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling:

As with any chemical product, use good laboratory/workplace procedures. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Use under well-ventilated conditions. Avoid eye and skin contact. Avoid drinking, tasting, swallowing or ingesting this product. Avoid routine inhalation of dust of any kind. Exercise care when emptying containers, sweeping, mixing or doing other tasks which can create dust. Wash contaminated clothing before reuse. Provide eyewash fountains and safety showers in the work area. As a precaution to control dust explosion potential, implement the following safety measures: Eliminate ignition sources (e.g., sparks, static buildup, excessive heat, etc.). In general, dust of organic materials is a static charge generator which may be ignited by electrostatic discharge, electrical arcs, sparks, welding torches, cigarettes, open flame, or other significant heat sources. Use spark-proof tools and equipment. Bond, ground and properly vent conveyors, dust control devices and other transfer equipment. Prohibit flow of polymer, powder or dust through non-conductive ducts, vacuum hoses or pipes, etc.; only use grounded, electrically conductive transfer lines when pneumatically conveying product. Good housekeeping and controlling of dusts are necessary for safe handling of product. Prevent accumulation of dust (e.g., well-ventilated conditions, promptly vacuuming spills, cleaning overhead horizontal surfaces, etc.).

#### 7.2. Conditions for safe storage, including any incompatibilities:

Store cool and dry, under well-ventilated conditions. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use. Do not reuse empty container without commercial cleaning or reconditioning. Product will absorb water vapor (hygroscopic).

#### 7.3. Specific end use(s):

No Additional Information

# SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters:

# Occupational exposure limits (OEL):

 Chemical Name
 EU OELV
 EU IOELV
 ACGIH - TWA/Ceiling
 ACGIH - STEL

 Sodium benzoate
 N/E
 N/E
 N/E
 N/E
 N/E

Chemical Name UK WEL Ireland OEL

N/E=Not established (no exposure limits established for the listed substances for listed country/region/organization).

### Derived No Effect Levels (DNELs):

# Sodium benzoate

<u> </u>					
Population Population	Route	Acute (local)	Acute (systemic)	Long Term (local)	Long Term (systemic)
Workers	Inhalation	N/E	N/E	0,1 mg/m3	3 mg/m3
Workers	Dermal	N/E	N/E	N/E	62,5 mg/kg bw/day
General population	Inhalation	N/E	N/E	0,06 mg/m3	1,5 mg/m3
General population	Dermal	N/E	N/E	31,25 mg/kg bw/day	N/E
General population	Oral	N/E	N/E	N/E	16,6 mg/kg bw/day
Humans via the environment	Inhalation	N/E	N/E	N/E	1,5 mg/m3
Humans via the environment	Oral	N/E	N/E	N/E	16,6 mg/kg bw/day

# SDS Name: Kalaquard\* SB Predicted No Effect Concentration (PNECs):

Sodium benzoate

Compartment **PNEC** 0,13 mg/L Freshwater Freshwater sediment 1,76 mg/kg dw 0,013 mg/L Marine water Marine water sediment 0,176 mg/kg dw Intermittent releases 305 ug/L Soil 0,276 mg/kg dw STP 10 mg/L Oral 300 mg/kg food

N/E=Not established; N/A=Not applicable (not required); bw=body weight; dw=dry weight; ww=wet weight.

#### 8.2. Exposure controls:

Appropriate engineering controls: Always provide effective general and, when necessary, local exhaust ventilation (minimum 5 air changes per hour) to draw dust away from workers to prevent routine inhalation. Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Eliminate ignition sources (e.g., sparks, static buildup, excessive heat, etc.). Prohibit flow of powder or dust through non-conductive ducts, vacuum hoses, or pipes, etc. Bond, ground, and properly vent conveyors, dust control devices and other transfer equipment.

# Individual protection measures, such as personal protective equipment:

Eye/face protection: Safety glasses or goggles required.

Hand protection: Avoid skin contact when mixing or handling the material by wearing impervious and chemical resistant gloves. In case of prolonged immersion or frequently repeated contact, gloves with breakthrough times greater than 240 minutes (protection class 5 or greater) are recommended. For brief contact or splash applications, gloves with breakthrough times of 10 minutes or greater are recommended (protection class 1 or greater). Suggested materials for protective gloves: Butyl rubber, Nitrile rubber, Neoprene, PVC, Viton. The protective gloves to be used must comply with the specifications of the Regulation (EU) 2016/425 and the resultant standard EN 374. Suitability and durability of a glove is dependent on usage (e.g. frequency and duration of contact, other chemicals which may be handled, chemical resistance of glove material and dexterity). Always seek advice of the glove supplier as to the most suitable glove material.

Skin and body protection: Use good laboratory/workplace procedures including personal protective clothing: labcoat, safety glasses and protective gloves.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. If inhalation of dust cannot be avoided, wear an approved particulate respirator (respirator with APF of 10-Effectiveness Inhalation: 90%).

Further information: Eyewash fountains and safety showers are recommended in the work area.

Environmental exposure controls: See Sections 6 and 12.

# SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties:

Physical state: Solid (grains) pH: 9 (10% aqueous solution)

White Density and/or relative 1.5 @ 20°C Colour:

density:

Partition coefficient n-Odour: Odorless 1.88 (Benzoic acid)

octanol/water (log value): Odour threshold: Not Available % Volatile by weight: Not Available

Solubility in water: 556 g/L VOC: Not Available

Evaporation rate: Not Available Boiling point °C: Decomposes before boiling Vapour pressure: Negligible @ 20°C Boiling point °F: Decomposes before boiling

Flash point: Relative vapour density: Not Available Not Applicable Not Available Kinematic viscosity: Not Applicable Auto-ignition temperature:

Melting point/Freezing point: 436°C (817°F) Flammability: Not flammable (may form

> combustible dust concentrations in air) LEL: Not Available

Oxidising properties: Not oxidizing Lower and upper explosion

limit:

**UEL: Not Available** Not explosive

**Decomposition temperature:** 450-475 °C (842-887 °F) Surface tension: 72.9 mN/m @ 20°C (1 g/L)

Amounts specified are typical and do not represent a specification.

#### 9.2. Other information:

Explosive properties:

#### Information with regard to physical hazard classes:

No additional information available.

#### Other safety characteristics:

Dust combustibility data: Product data (Kalaguard® SB grains): Minimum ignition energy (grains): >10000 mJ

(extrapolated). Dust explosion class: St1.

Particle size variation is considered a critical factor in regards to dust explosion hazard information. The Minimum Ignition Energy (MIE) of a dust/air mix depends on the particle size the water content and the temperature of the dust. The finer and the dryer the dust the lower the MIE. The following results are not typical of the product as the test samples were processed by milling and/or sieving prior to testing. Unless specified differently below, the test samples were characterized with particle size: 24 um mean (distribution: 93% <75 um, 100% <500 um) and 0.2% moisture content.

- Minimum ignition energy: 10-<30 mJ with inductance, 30-<100 mJ without inductance.
- Minimum explosive concentration: 50-60 g/m3.
- Minimum autoignition temperature (MIT dust cloud): 540°C.
- Maximum rate of pressure rise (dP/dT average): 590 bars/sec.
- Maximum pressure of explosion (Pmax average): 7.1 bars-gauge.
- Deflagration Index, Kst: 160 bar-m/sec.
- Dust explosion class: St1.
- Volume resistivity (ambient relative humidity): >10(14) ohm-m (powder, particle size 100% <75 um).
- Volume resistivity (low relative humidity): >10(14) ohm-m (powder, particle size 100% <75 um).
- Charge decay (ambient relative humidity): 4.8 hours (powder, particle size 100% <75 um).
- Charge decay (low relative humidity): 6.8 hours (powder, particle size 100% <75 um).

# SECTION 10: Stability and reactivity

### 10.1. Reactivity:

None known.

### 10.2. Chemical stability:

This product is stable.

#### 10.3. Possibility of hazardous reactions:

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid:

Excessive heat and ignition sources. Contact with water or moist air. Avoid static discharge. Avoid dust formation.

#### 10.5. Incompatible materials:

Avoid strong acids and oxidizing agents. Avoid contact with iron salts.

#### 10.6. Hazardous decomposition products:

Carbon dioxide and carbon monoxide.

# **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity: Not classified (based on available data, the classification criteria are not met).

Chemical Name Inhalation LC50 Species Oral LD50 Species **Dermal LD50** Species Sodium benzoate >12.2 mg/L (4 hours, Rat/ adult >2000 mg/kg (weight >2000 mg/kg (based Rabbit/ adult Rat/ adult based on benzoic of evidence) on benzoic acid)

Skin corrosion/irritation: Not classified (based on available data, the classification criteria are not met).

 Chemical Name
 Skin irritation
 Species

 Sodium benzoate
 Non-irritant (OECD 404)
 Rabbit/ adult

Serious eye damage/irritation: Causes serious eye irritation - Category 2.

 Chemical Name
 Eye irritation
 Species

 Sodium benzoate
 Irritant (OECD 405)
 Rabbit/ adult

Respiratory or skin sensitization: Not classified (based on available data, the classification criteria are not met). READ-ACROSS (BENZOIC ACID): Not a skin sensitizer in the mouse local lymph node assay or Buehler guinea pig test.

<u>Chemical Name</u> <u>Skin sensitisation</u> <u>Species</u>

Sodium benzoate Non-sensitizer (read-across) Guinea pig and Mouse local lymph node assay

**Carcinogenicity:** Not classified (based on available data, the classification criteria are not met). SODIUM BENZOATE: In a 2-year animal feeding study (2% in food), sodium benzoate was not carcinogenic.

**Germ cell mutagenicity:** Not classified (based on available data, the classification criteria are not met). SODIUM BENZOATE: No mutagenic activity was observed in the in-vitro Ames tests. Positive mutagenic effects have been observed in most in-vitro chromosome abberation testing. Sodium benzoate showed no genotoxicity during in-vivo testing.

Reproductive toxicity: Not classified (based on available data, the classification criteria are not met). BENZOIC ACID AND

BENZOATE SALTS: Reproductive toxicity (benzoic acid), 4-generation oral study in rats: NOAEL (no-observed adverseeffect-level) 500 mg/kg bw/day. Developmental toxicity (sodium benzoate), oral, rats and mice: NOAEL of >=175 mg/kg bw/day can be established for developmental effects.

Specific target organ toxicity (STOT) - single exposure: Not classified (based on available data, the classification criteria are not met).

Specific target organ toxicity (STOT) - repeated exposure: Not classified (based on available data, the classification criteria are not met). BENZOIC ACID AND BENZOATE SALTS: At higher doses (oral) increased mortality, reduced weight gain. convulsions (central nervous system effects), liver and kidney effects were observed. SODIUM BENZOATE: Repeated dose oral toxicity studies for salts of benzoic acids: NOAEL (no-observed-adverse-effect-level) 1000 mg/kg bw/day. READ-ACROSS (BENZOIC ACID): Repeated dose toxicity study, inhalation: NOAEC (No-Observed-Adverse-Effect-Concentration), inhalation, rat: 250 mg/m3 (systemic effects); 25 mg/m3 (local). Local effects including nasal redness, pulmonary fibrosis and inflammatory cell infitrates in the lungs were observed at lowest dose of 25 mg/m3 and can be attributed to the irritant properties and to the physico-chemical properties of fine low-solubility particles of benzoic acid. NOAEL (No-Observed-Adverse-Effect-Level), dermal, rabbit - 2500 mg/kg bw/day.

Aspiration hazard: Not classified (technical impossibility to obtain the data).

Other toxicity information: No additional information available.

#### Information on likely routes of exposure:

General: Caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure.

**Eves:** Causes serious eye irritation.

Skin: Repeated or prolonged skin contact may cause irritation. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Inhalation: Dust inhalation may cause respiratory irritation.

**Ingestion:** May be harmful if swallowed. Ingestion may cause irritation.

#### 11.2. Information on other hazards

Endocrine disrupting properties: No specific information available.

Other information: No additional information available.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity:

Chemical Name	<u>Species</u>	<u>Acute</u>	<u>Acute</u>	<u>Chronic</u>
Sodium benzoate	Fish	LC50 484 mg/L (96 hours)	LC50 >100 mg/L(96 hours)	NOEC 10 mg/L (144 hours)
Sodium benzoate	Invertebrates	EC50 >100 mg/L (96 hours)	N/E	N/E
Sodium benzoate	Algae	EC50 >30.5 mg/L (72 hours)	N/E	EC10 6.5 mg/L(72 hours)
Sodium benzoate	Micro-organisms	EC50 > 100 mg/L (168 hours)		

### 12.2. Persistence and degradability:

Chemical Name **Biodegradation** Readily biodegradable Sodium benzoate

12.3. Bioaccumulative potential:

**Chemical Name** Bioconcentration Factor (BCF) Log Kow Sodium benzoate 1.88 (Benzoic acid)

12.4. Mobility in soil:

**Chemical Name** Mobility in soil (Koc/Kow) Sodium benzoate

#### 12.5. Results of PBT and vPvB assessment:

This product does not meet the PBT and vPvB classification criteria.

### 12.6. Endocrine disrupting properties:

No specific information available.

#### 12.7. Other adverse effects:

No additional information available.

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods:

Dispose of unused contents (incineration or landfill) in accordance with national and local regulations. Dispose of container in accordance with national and local regulations. Ensure the use of properly authorized waste management companies, where appropriate.

See Section 8 for recommendations on the use of personal protective equipment.

# **SECTION 14: Transport information**

The information below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions.

14.1. UN number or ID number: N/A

### 14.2. UN proper shipping name:

Not regulated - See Bill of Lading for Details

### 14.3. Transport hazard class(es):

U.S. DOT hazard class: N/A Canada TDG hazard class: N/A

Europe ADR/RID/ADN hazard class: N/A IMDG Code (ocean) hazard class: N/A ICAO/IATA (air) hazard class: N/A

A "N/A" listing for the hazard class indicates the product is not regulated for transport by that regulation.

14.4. Packing group: N/A

#### 14.5. Environmental hazards:

Marine pollutant: Not Applicable

Hazardous substance (USA): Not Applicable

#### 14.6. Special precautions for user:

Not Applicable

#### 14.7. Maritime transport in bulk according to IMO instruments

Chemical NameIBC CodeSodium benzoateCategory Z

# **SECTION 15: Regulatory information**

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

**Europe REACh (EC) 1907/2006:** Not relevant for uses within the scope of the Biocidal Products Regulation (BPR, Regulation (EU) 528/2012).

EU Authorizations and/or restrictions on use: Not Applicable

Other EU information: Biocidal Products Regulation (BPR, Regulation (EU) 528/2012):

Authorised use: Authorised to be used as preservative (PT6) against bacteria and yeast in detergents such as dishwash cleaners, liquid laundry detergent or cleaners. The product is only intended for industrial use. For Ireland: Use biocides safely and sustainably. It is illegal to use this product for uses or in a manner other than prescribed on this label.

Directions for use: The product needs to be dosed to articles which require preservation by means of automated or manual dosing to achieve final concentration of <=2.95%, direct or via pre-mix.

Biocidal products authorisation numbers:

- Austria: AT-0021528-0000.
- Belgium: BE2019-0050.
- Bulgaria: 2616-1/25.10.2019.
- Cyprus: KY-0173.
- Croatia: KLASA: UP/I-543-04/19-12/58.
- Czech Republic: CZ-0021832-0000.
- Denmark: 858-1.
- Finland: FI-2019-0013.
- France: FR-2019-0097.
- Germany: DE-0017076-06.
- Greece: NL-0018125-0000.
- Hungary: HU-2019-MA-06-00254-0000.
- Ireland: IE/BPA 70685-001.
- Italy: IT/2019/00588/MRP.
- Luxembourg: 189/19/L-OOO.

- Malta: 2019-08-05-B01.
- Netherlands: NL-0018125-0000.
- Poland: PL/2019/0414/MR.
- Portugal: PT/DGS mrp-202/2019.
- Romania: RO/2020/0260/MRA/NL-0018125-0000.
- Slovakia: SK19-MRP-027.Slovenia: SI-0020477-0000.
- Spain: ES/MR(NA)-2019-06-00656.
- Sweden: 5562.
- Switzerland: CH-2020-003.
- United Kingdom: UK-2019-1218.

National regulations: No Additional Information

#### Chemical inventories:

Regulation	<u>Status</u>
Australian Inventory of Industrial Chemicals (AIIC):	Υ
Canadian Domestic Substances List (DSL):	Υ
Canadian Non-Domestic Substances List (NDSL):	N
China Inventory of Existing Chemical Substances (IECSC):	Υ
European EC Inventory (EINECS, ELINCS, NLP):	Υ
Japan Existing and New Chemical Substances (ENCS):	Υ
Japan Industrial Safety and Health Law (ISHL):	Υ
Korean Existing and Evaluated Chemical Substances (KECL):	Υ
New Zealand Inventory of Chemicals (NZIoC):	Υ
Philippines Inventory of Chemicals and Chemical Substances (PICCS):	Υ
Taiwan Inventory of Existing Chemicals:	Υ
U.S. Toxic Substances Control Act (TSCA) (Active):	Υ

A "Y" listing indicates all intentionally added components are either listed or are otherwise compliant with the regulation. A "N" listing indicates that for one or more components: 1) there is no listing on the public inventory (or is not on the ACTIVE inventory for U.S. TSCA); 2) no information is available; or 3) the component has not been reviewed. A "Y" for New Zealand may mean that a qualified group standard may exist for the components in this product.

### 15.2. Chemical safety assessment:

Uses considered to be within the scope of the Biocidal Products Regulation (BPR, Regulation (EU) 528/2012) are exempt from the requirements of inclusion in the Chemical Safety Report (CSR) under the REACh and related CLP regulation(s) ((EC) No. 1907/2006 and (EC) No. 1272/2008, respectively). Please refer to the BPR mandated labeling for products marketed for use in biocidal applications for specific information on use levels and guidance on safe handling.

# **SECTION 16: Other information**

#### Hazard (H) Statements in the Composition section (Section 3):

H319 Causes serious eye irritation.

Reason for revision: Changes in Section(s): 15, Safety data sheet format (Regulation (EU) 2020/878)

**Evaulation method for classification of mixtures:** Not Applicable (substance)

Notes: Refer to product labeling under Biocidal Products Regulation (BPR, Regulation (EU) 528/2012).

## Legend:

\*: Trademark owned by Emerald Performance Materials, LLC.

ACGIH: American Conference of Governmental Industrial Hygienists

ATE: Acute toxicity estimate

EU OELV: European Union Occupational Exposure Limit Value

EU IOELV: European Union Indicative Occupational Exposure Limit Value

N/A: Not Applicable N/E: None Established

SCL: Specific concentration limit STEL: Short Term Exposure Limit

TWA: Time Weighted Average (exposure for 8-hour workday)

# Users Responsibility/Disclaimer of Liability:

The information set forth herein is based on our current knowledge, and is intended to describe the product solely with respect to health, safety and the environment. As such, it must not be interpreted as a guarantee of any specific property of the product. As a result, the customer shall be solely responsible for deciding whether said information is suitable and beneficial.

Safety Data Sheet Preparer: Product Compliance Department Emerald Performance Materials, LLC 1499 SE Tech Center Place, Suite 300 Vancouver, WA 98683

**United States** 

Annex

Not required (BPR)