

CYASORB® UV-531 LIGHT ABSORBER

Revision Date 04/02/2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

- Trade name CYASORB® UV-531 LIGHT ABSORBER

1.2 Relevant identified uses of the substance or mixture and uses advised against**Uses of the Substance / Mixture**

- Plastic additive

Uses advised against

- none

1.3 Details of the supplier of the safety data sheet**Company**

CYTEC INDUSTRIES INC.
504 CARNEGIE CENTER
PRINCETON, NJ 08540 USA
Telephone: +1-973-357-3193

1.4 Emergency telephone

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CONTACT CHEMTREC (24-Hour Number): 800-424-9300 within the United States and Canada, or 703-527-3887 for international collect calls.

Disclaimer

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SECTION 2: Hazards identification

Although OSHA has not adopted the environmental portion of the GHS regulations, this document may include information on environmental effects.

2.1 Classification of the substance or mixture**HCS 2012 (29 CFR 1910.1200)**

Combustible dust
Skin sensitization, Category 1

May form combustible dust concentrations in air.
H317: May cause an allergic skin reaction.

2.2 Label elements**HCS 2012 (29 CFR 1910.1200)**

Pictogram



Signal Word

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- Warning

Hazard Statements

- May form combustible dust concentrations in air.
- H317 May cause an allergic skin reaction.

Precautionary StatementsPrevention

- P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P280 Wear protective gloves.

Response

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

Disposal

- P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards which do not result in classification

- Risk of dust explosion.
- Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

SECTION 3: Composition/information on ingredients**3.1 Substance**

- Chemical nature Phenolic ketone

Hazardous Ingredients and Impurities

Chemical name	Identification number CAS-No.	Concentration [%]
Methanone, [2-hydroxy-4-(octyloxy)phenyl]phenyl-	1843-05-6	99 - 100

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

3.2 Mixture

- Not applicable, this product is a substance.

SECTION 4: First aid measures**4.1 Description of first-aid measures****In case of inhalation**

- Quickly move the person away from the contaminated area. Make the affected person rest.
- Obtain medical attention.
- Show this sheet to the doctor.
- Be prepared to provide first aid or medical support if necessary.

In case of skin contact

- Wash off immediately with plenty of water for at least 15 minutes.
- Use appropriate protective equipment when treating a contaminated person.
- In case of inflammation (redness, irritation, ...) obtain medical attention.

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- Show this sheet to the doctor.
- Be prepared to provide first aid or medical support if necessary.

In case of eye contact

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- Keep eye wide open while rinsing.
- Show this sheet to the doctor.
- Always obtain medical advice, even if there are no symptoms.
- Be prepared to provide first aid or medical support if necessary.

In case of ingestion

- Do NOT induce vomiting.
- Obtain medical attention.
- Show this sheet to the doctor.
- Do not give anything to drink.
- Be prepared to provide first aid or medical support if necessary.

4.2 Most important symptoms and effects, both acute and delayed**Symptoms**

- Breathing difficulties
- Irritation
- Redness
- Swelling of tissue
- allergic rhinitis
- Severe allergic skin reactions, bronchospasm and anaphylactic shock
- Itching
- Lachrymation

Effects

- Chronic exposure may cause allergic dermatitis.
- Exposure may cause allergic rhinitis, conjunctivitis, asthma or shock.
- Mechanical irritation from the particulates generated by the product.

4.3 Indication of any immediate medical attention and special treatment needed**Notes to physician**

- Take victim to hospital if symptoms persist.
- Get medical advice/ attention.
- Treat symptomatically.
- Keep under medical follow up for at least 48 hours.

SECTION 5: Firefighting measures**Flash point**

Not applicable

Autoignition temperature

Not applicable

Flammability / Explosive limitLower flammability/explosion limit : Not applicable
Upper flammability/explosion limit : Not applicable**5.1 Extinguishing media****Suitable extinguishing media**

- Water spray
- Foam
- Carbon dioxide (CO₂)

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- Multipurpose powders

Unsuitable extinguishing media

- High volume water jet

5.2 Special hazards arising from the substance or mixture

- Risk of dust explosion.
- Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
- Under fire conditions:
 - Will burn
 - On combustion, toxic gases are released.

5.3 Advice for firefighters**Special protective equipment for fire-fighters**

- In the event of fire, wear self-contained breathing apparatus.
- Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
- For further information refer to section 8 "Exposure controls / personal protection."

Specific fire fighting methods

- Do not use a solid water stream as it may scatter and spread fire.

Further information

- Standard procedure for chemical fires.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

- Where exposure level is not known, wear approved, positive pressure, self-contained respirator.
- Where exposure level is known, wear approved respirator suitable for level of exposure.
- For further information refer to section 8 "Exposure controls / personal protection."

6.2 Environmental precautions

- Prevent further leakage or spillage if safe to do so.
- Contain the spilled material by diking.
- Do not let product enter drains.
- Do not allow uncontrolled discharge of product into the environment.
- Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies

6.3 Methods and materials for containment and cleaning up

- Stop leak if safe to do so.
- Avoid dust formation.
- Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.
- Sweep up and shovel into suitable containers for disposal.
- Keep in properly labeled containers.
- Keep in suitable, closed containers for disposal.

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- After cleaning, flush away traces with water.
- Recover the cleaning water for subsequent disposal.
- Decontaminate tools, equipment and personal protective equipment in a segregated area.
- Dispose of in accordance with local regulations.
- Never return spills in original containers for re-use.

6.4 Reference to other sections

- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 13. DISPOSAL CONSIDERATIONS

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

- Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.
- Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations.
- Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

Hygiene measures

- Handle in accordance with good industrial hygiene and safety practice.
- Wash hands before breaks and at the end of workday.
- When using do not eat, drink or smoke.
- Eye wash bottles or eye wash stations in compliance with applicable standards.
- Ensure that eyewash stations and safety showers are close to the workstation location.

Dust explosion class

- St1

7.2 Conditions for safe storage, including any incompatibilities**Technical measures/Storage conditions**

- Ensure all equipment is electrically grounded before beginning transfer operations.

Requirements for storage rooms and vessels

Recommended storage temperature: 32 - 95 °F (0 - 35 °C)

- To guarantee the quality and properties of the product keep according to Storage temperature and conditions.

7.3 Specific end use(s)

- no data available

SECTION 8: Exposure controls/personal protection

Introductory Remarks: These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

8.1 Control parameters

- Contains no substances with occupational exposure limit values.

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8.2 Exposure controls

Control measures**Engineering measures**

- Provide appropriate exhaust ventilation at places where dust is formed.
- Apply technical measures to comply with the occupational exposure limits.

Individual protection measures**Respiratory protection**

- Keep in a well-ventilated place.
- Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).

Hand protection

- Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
- Impervious gloves

Suitable material

- Nitrile or fluorinated rubber gloves.

Eye protection

- Dust proof goggles, if dusty.
- Tightly fitting safety goggles
- Eye wash bottles or eye wash stations in compliance with applicable standards.

Skin and body protection

- Full protective suit
- Change working clothes after each work-shift.
- Contaminated work clothing should not be allowed out of the workplace.

Hygiene measures

- Handle in accordance with good industrial hygiene and safety practice.
- Wash hands before breaks and at the end of workday.
- When using do not eat, drink or smoke.
- Eye wash bottles or eye wash stations in compliance with applicable standards.
- Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9: Physical and chemical properties

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product information phone number in Section 1 for its exact specifications.

9.1 Information on basic physical and chemical properties**Appearance**

Form: flakes, powder

Physical state: solid

Color: slightly yellow
to
yellow

Odor

odorless

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<u>Odor Threshold</u>	No data available
<u>Molecular weight</u>	326 g/mol
<u>pH</u>	Not applicable
<u>Melting point/freezing point</u>	<u>Melting point/range</u> : 113 - 115 °F (45 - 46 °C)
<u>Initial boiling point and boiling range</u>	<u>Boiling point/boiling range</u> : Not applicable
<u>Flash point</u>	Not applicable
<u>Evaporation rate (Butylacetate = 1)</u>	Not applicable
<u>Flammability (solid, gas)</u>	May form combustible dust concentrations in air.
<u>Flammability / Explosive limit</u>	<u>Lower flammability/explosion limit</u> : Type: Lower flammability limit Not applicable <u>Upper flammability/explosion limit</u> : Type: Upper flammability limit Not applicable
<u>Autoignition temperature</u>	Not applicable
<u>Vapor pressure</u>	0.0000003 mmHg (0.0000005 hPa) (68 °F (20 °C))
<u>Vapor density</u>	Not applicable
<u>Density</u>	1.16 g/cm3 (77 °F (25 °C))
<u>Relative density</u>	No data available
<u>Solubility</u>	<u>Water solubility</u> : < 0.00073 mg/l (68 °F (20 °C))
<u>Partition coefficient: n-octanol/water</u>	log Pow: > 6
<u>Decomposition temperature</u>	> 572 °F (> 300 °C)
<u>Viscosity</u>	<u>Viscosity, dynamic</u> : Not applicable <u>Viscosity, kinematic</u> : Not applicable
<u>Explosive properties</u>	No data available
<u>Oxidizing properties</u>	Not considered as oxidizing.
9.2 Other information	
<u>Surface tension</u>	Not applicable
<u>Dust explosion constant</u>	166 m.bar/s Maximum Pressure: 6.9 bar Particle size < 75µm St1
<u>Minimum Explosible Concentration</u>	30 g/m3

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Minimum ignition energy

3 - 5 mJ

Peroxides

The substance or mixture is not classified as organic peroxide.

SECTION 10: Stability and reactivity**10.1 Reactivity**

- no data available

10.2 Chemical stability

- Stable

10.3 Possibility of hazardous reactions

- no data available

10.4 Conditions to avoid

- no data available

10.5 Incompatible materials

- Strong oxidizing agents

10.6 Hazardous decomposition products**Hazardous decomposition products**

- Carbon dioxide (CO₂)
- Carbon monoxide

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Acute oral toxicity**

Methanone, [2-hydroxy-4-(octyloxy)phenyl]phenyl-

LD50 : > 10,000 mg/kg - Rat
Method: OECD Test Guideline 423
Not classified as hazardous for acute oral toxicity according to GHS.
Unpublished reports

Acute inhalation toxicity

No data available

Acute dermal toxicity

Methanone, [2-hydroxy-4-(octyloxy)phenyl]phenyl-

LD50 : > 10,000 mg/kg - Rabbit
Method: OECD Test Guideline 402
Not classified as hazardous for acute dermal toxicity according to GHS.
Unpublished reports

Acute toxicity (other routes of administration)

No data available

Skin corrosion/irritation

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Methanone, [2-hydroxy-4-(octyloxy)phenyl]phenyl-

Rabbit
No skin irritation
Method: OECD Test Guideline 404
Occlusive
Unpublished reports

Serious eye damage/eye irritation

Methanone, [2-hydroxy-4-(octyloxy)phenyl]phenyl-

Rabbit
slight irritation
Method: OECD Test Guideline 405
Unpublished reports

Respiratory or skin sensitization

Methanone, [2-hydroxy-4-(octyloxy)phenyl]phenyl-

Maximization Test - Guinea pig
no observed effect
Method: OECD Test Guideline 406
Unpublished internal reports

Maximization Test - Guinea pig
≥ 30 % responding at > 1 % intradermal induction dose
Method: OECD Test Guideline 406
Unpublished reports

Maximization Test - Guinea pig
≥ 30 % responding at > 1 % intradermal induction dose
Method: OECD Test Guideline 406
Unpublished reports

Classified as a skin sensitizer sub-category 1B according to GHS criteria

Mutagenicity**Genotoxicity in vitro**

Methanone, [2-hydroxy-4-(octyloxy)phenyl]phenyl-

Ames test
Strain: Salmonella typhimurium
with and without metabolic activation

negative
Method: OECD Test Guideline 471
Unpublished reports

Chromosome aberration test in vitro
Strain: Human lymphocytes
with and without metabolic activation

negative
Method: OECD Test Guideline 473
Unpublished reports

By analogy

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Gene mutation assays in mammalian cells.
Strain: mouse lymphoma cells
with and without metabolic activation

negative
Method: OECD Test Guideline 476
Published data

Genotoxicity in vivo

No data available

Carcinogenicity

No data available

This product does not contain any ingredient designated as probable or suspected human carcinogens by:

NTP
IARC
OSHA

Toxicity for reproduction and development**Toxicity to reproduction / fertility**

Methanone, [2-hydroxy-4-
(octyloxy)phenyl]phenyl-

Fertility study 4 generations - Rat, male and female, Oral
Fertility NOAEL Parent: ≥ 523.9 mg/kg
Method: according to a standardized method

Fertility NOAEL F1: ≥ 523.9 mg/kg
in feed, no impairment of fertility has been observed, Unpublished reports

Developmental Toxicity/Teratogenicity No data available

STOT**STOT-single exposure**

Methanone, [2-hydroxy-4-
(octyloxy)phenyl]phenyl-

The substance or mixture is not classified as specific target organ toxicant, single exposure according to GHS criteria.

STOT-repeated exposure

Methanone, [2-hydroxy-4-
(octyloxy)phenyl]phenyl-

The substance or mixture is not classified as specific target organ toxicant, repeated exposure according to GHS criteria.

Methanone, [2-hydroxy-4-
(octyloxy)phenyl]phenyl-

Oral 90-day - Rat , male and female
NOAEL: ≥ 75 mg/kg bw/day
Method: OECD Test Guideline 408
Kidney injury may occur.
Unpublished reports

Experience with human exposure

No data available

Aspiration toxicity

Methanone, [2-hydroxy-4-
(octyloxy)phenyl]phenyl-

Not applicable

SECTION 12: Ecological information**12.1 Toxicity****Aquatic Compartment****Acute toxicity to fish**

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Methanone, [2-hydroxy-4-(octyloxy)phenyl]phenyl-

LL50 - 96 h : > 100 mg/l - Danio rerio (zebra fish)
static test
Analytical monitoring: no

Test substance: At saturation in water
Method: OECD Test Guideline 203
Not harmful to fish (LC/LL50 > 100 mg/L)
Fresh water
No toxicity at the limit of solubility.
Result expressed in nominal loading rate (product tested as a saturated solution or as a WAF/WSF)
Unpublished reports

Acute toxicity to daphnia and other aquatic invertebrates

Methanone, [2-hydroxy-4-(octyloxy)phenyl]phenyl-

EC50 - 48 h : > 0.004 mg/l - Daphnia magna (Water flea)
semi-static test
Analytical monitoring: yes
Method: according to a standardized method
No toxicity at the limit of solubility.
Fresh water
Unpublished reports

Toxicity to aquatic plants

Methanone, [2-hydroxy-4-(octyloxy)phenyl]phenyl-

EL50 - 72 h : > 100 mg/l - Algae : Desmodesmus subspicatus (Scenedesmus subspicatus)
static test
Analytical monitoring: no
Endpoint: Growth rate
Test substance: At saturation in water
Method: OECD Test Guideline 201
Not harmful to algae (EC/EL50 > 100 mg/L)
Fresh water
No toxicity at the limit of solubility.
Result expressed in nominal loading rate (product tested as a saturated solution or as a WAF/WSF)
Unpublished reports

NOELR - 72 h : > 100 mg/l - Algae : Desmodesmus subspicatus (Scenedesmus subspicatus)
static test
Analytical monitoring: no
Endpoint: Growth rate
Test substance: At saturation in water
Method: OECD Test Guideline 201
No adverse chronic effect observed up to and including the threshold of 1 mg / L.
Fresh water
No toxicity at the limit of solubility.
Result expressed in nominal loading rate (product tested as a saturated solution or as a WAF/WSF)
Unpublished reports

Toxicity to microorganisms

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Methanone, [2-hydroxy-4-(octyloxy)phenyl]phenyl-

EL50 - 3 h : > 100 mg/l - activated sludge static test

Analytical monitoring: no

Endpoint: Respiration inhibition

Test substance: At saturation in water

Method: OECD Test Guideline 209

Fresh water

No toxicity at the limit of solubility.

Result expressed in nominal loading rate (product tested as a saturated solution or as a WAF/WSF)

Unpublished reports

Chronic toxicity to fish

No data available

Chronic toxicity to daphnia and other aquatic invertebrates

No data available

12.2 Persistence and degradability**Abiotic degradation****Stability in water**

Half-life value: > 1 y (50 °C)

Hydrolysis

pH: 4.0

Published data

Half-life value: > 1 y (50 °C)

Hydrolysis

pH: 7.0

Published data

Half-life value: > 1 y (50 °C)

Hydrolysis

pH: 9.0

Published data

Physical- and photo-chemical elimination

No data available

Biodegradation**Biodegradability**

Methanone, [2-hydroxy-4-(octyloxy)phenyl]phenyl-

Ultimate aerobic biodegradability

Method: OECD Test Guideline 301 B

5 - 6 % - 28 Days

The substance does not fulfill the criteria for ready biodegradability and ultimate aerobic biodegradability

Theoretical carbon dioxide production

Inoculum: activated sludge

Unpublished reports

Degradability assessment

Methanone, [2-hydroxy-4-(octyloxy)phenyl]phenyl-

The product is not considered to be rapidly degradable in the environment

12.3 Bioaccumulative potential**Partition coefficient: n-octanol/water**

No data available

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Bioconcentration factor (BCF)

Species: Cyprinus carpio (Carp)
 Bioconcentration factor (BCF): 89 - 190
 Exposure time: 60 d
 Test substance: Fresh water
 Accumulation in aquatic organisms is unlikely.

12.4 Mobility in soil**Adsorption potential (Koc)**

Adsorption/Soil
 Soil
 Log Koc: 4.8
 Method: Estimation method

Known distribution to environmental compartments

No data available

12.5 Results of PBT and vPvB assessment

Methanone, [2-hydroxy-4-(octyloxy)phenyl]phenyl-

Not classified as PBT substance.
 Not classified as vPvB.

12.6 Other adverse effects**Ecotoxicity assessment****Short-term (acute) aquatic hazard**

Methanone, [2-hydroxy-4-(octyloxy)phenyl]phenyl-

No toxicity at the limit of solubility.

Long-term (chronic) aquatic hazard

Methanone, [2-hydroxy-4-(octyloxy)phenyl]phenyl-

No toxicity at the limit of solubility.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product Disposal**

- The Company encourages the recycle, recovery and reuse of materials, where permitted. If disposal is necessary, The Company recommends that organic materials, especially when classified as hazardous waste, be disposed of by thermal treatment or incineration at approved facilities. All local and national regulations should be followed.

SECTION 14: Transport information**DOT**

not regulated

TDG

not regulated

NOM

not regulated

IMDG

not regulated

IATA

not regulated

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of

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transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

SECTION 15: Regulatory information

15.1 Notification status

Inventory Information	Status
United States TSCA Inventory	- All substances listed as active on the TSCA inventory
EU. European Registration, Evaluation, Authorisation and Restriction of Chemical (REACH)	- When purchased from a Solvay legal entity based in the EEA ("European Economic Area"), this product is compliant with the registration provisions of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt, and/or registered. When purchased from a legal entity outside of the EEA, please contact your local representative for additional information.
Canadian Domestic Substances List (DSL)	- Listed on Inventory
Australia Inventory of Chemical Substances (AICS)	- Listed on Inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	- Listed on Inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- Listed on Inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- Listed on Inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- Listed on Inventory
Taiwan Chemical Substance Inventory (TCSI)	- Listed on Inventory
New Zealand. Inventory of Chemical Substances	- All components are listed on the NZIOC inventory. The HSNO status of the product has not been assessed.

15.2 Federal Regulations

US. EPA EPCRA SARA Title III

SARA HAZARD DESIGNATION SECTIONS 311/312 (40 CFR 370)

Combustible dust	Yes
Respiratory or skin sensitization	Yes

The categories not mentioned are not relevant for the product.

Section 313 Toxic Chemicals (40 CFR 372.65)

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Section 302 Emergency Planning Extremely Hazardous Substance Threshold Planning Quantity (40 CFR 355)

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This material does not contain any components with a section 302 EHS TPQ.

Section 302 Emergency Planning Extremely Hazardous Substance Reportable Quantity (40 CFR 355)

This material does not contain any components with a SARA 302 RQ.

Section 304 Emergency Release Notification Reportable Quantity (40 CFR 355)

This material does not contain any components with a section 304 EHS RQ.

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

Components	CAS-No.	Reportable quantity
Lead	7439-92-1	10 lb

15.3 State Regulations**US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)**

Please contact your local sales representative if you have questions and need more information concerning this product under California's Proposition 65 statute (www.p65warnings.ca.gov).

SECTION 16: Other information**NFPA (National Fire Protection Association) - Classification**

Health	2 moderate
Flammability	3 serious
Instability or Reactivity	0 minimal

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Key or legend to abbreviations and acronyms used in the safety data sheet

- ACGIH	American Conference of Governmental Industrial Hygienists
- OSHA	Occupational Safety and Health Administration
- NTP	National Toxicology Program
- IARC	International Agency for Research on Cancer
- NIOSH	National Institute for Occupational Safety and Health
- ADR:	European Agreement on International Carriage of Dangerous Goods by Road.
- ADN:	European Agreement on the International Carriage of Dangerous Goods by Inland
Waterways:	
- RID:	European Agreement concerning the International Carriage of Dangerous Goods by Rail.
- IATA:	International Air Transport Association.
- ICAO-TI:	Technical Specification for Safe Transport of Dangerous Goods by Air.
- IMDG:	International Maritime Dangerous Goods.
- TWA:	Time weighted average
- ATE:	Estimated value of acute toxicity
- EC:	European Community number
- CAS:	Chemical Abstracts Service.
- LD50:	Substance that causes 50% (half) death in the test animals group (Median Fatal Dose).
- LC50:	Substance concentration causing 50% (half) death in the test animals group.
- EC50:	Effective Concentration of the substance causing the maximum of 50%.
- PBT:	Persistent, Bioaccumulative and Toxic substance.
- vPvB:	Very Persistent and Very Bioaccumulative.
- SEA:	Classification, labeling, packaging regulation
- DNEL:	Derived No Effect Level
- PNEC:	Predicted No Effect Concentration
- BHOT:	Specific Target Organ Toxicity

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Not all acronyms listed above are referenced in this SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose, and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.