

SAFETY DATA SHEET

Revision Date 12/22/2023

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name : Anasorb C300
Product Number : 10871
Brand : SKC, Inc.

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

Recommended use : Air Sampling
Recommended restrictions : Use in accordance with supplier's recommendations.

Details of the supplier of the safety data sheet

Company : SKC, Inc.
863 Valley View Rd.
Eighty Four, PA 15330
USA

Telephone : 724-941-9701; 800-752-8472 (Mon - Fri, 8:30 a.m. - 5:00 p.m. EST)
Fax : 724-941-1369 (Mon - Fri, 8:30 a.m. - 5:00 p.m. EST)

Emergency telephone number

Emergency Phone # : CHEMTREC at 800-424-9300 (U.S./Canada); 703-741-5970 (Global)

2. HAZARDS IDENTIFICATION

Physical hazards Not classified.

Health hazards
Acute toxicity, oral Category 4
Acute toxicity, inhalation Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2
Specific target organ toxicity, single exposure Category 3 respiratory tract irritation
Specific target organ toxicity, repeated exposure Category 2 (brain)

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement
Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled.
May cause respiratory irritation. May cause damage to organs (brain) through prolonged or repeated exposure.

Precautionary statement
Prevention

Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response

If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Mixtures**

Chemical Name	CAS-No	%
Manganese dioxide	1313-13-9	40 - 70
Copper oxide	1317-38-0	15 - 40

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. FIRST AID MEASURES**Inhalation**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Skin contact

Wash off with soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Take off immediately all contaminated clothing.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.

Ingestion

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and delayed

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Causes serious eye irritation. Dust may irritate throat and respiratory system and cause coughing.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. FIREFIGHTING MEASURES**Suitable extinguishing media**

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

None.

Specific hazards arising from the chemical

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Special protective equipment and precautions for firefighters

Firefighters should wear full protective clothing including self-contained breathing apparatus. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Fire-fighting equipment/instructions

Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out.

General fire hazards

Not itself combustible but assists fire in burning materials.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk. Dike far ahead of spill for later disposal. Following product recovery, flush area with water. For waste disposal, see Section 13 of the SDS.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE**Precautions for safe handling**

Provide adequate ventilation. Avoid inhalation of dust and contact with skin and eyes. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Do not taste or swallow. Do not eat, drink or smoke when using the product. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Keep out of reach of children. Store away from incompatible materials (See Section 10).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Occupational exposure limits****US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value
Manganese dioxide (CAS 1313-13-9)	Ceiling	5 mg/m ³

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Manganese dioxide (CAS 1313-13-9)	TWA	0.1 mg/m ³	Inhalable fraction.
		0.02 mg/m ³	Respirable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Copper oxide (CAS 1317-38-0)	TWA	0.1 mg/m ³	Fume.
Manganese dioxide (CAS 1313-13-9)	STEL	3 mg/m ³	Fume.
	TWA	1 mg/m ³	Fume.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Ventilate as needed to control airborne dust. Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear dust-resistant safety goggles where there is danger of eye contact.

Skin protection

Hand protection Wear protective gloves.

Other Wear suitable protective clothing.

Respiratory protection

When engineering controls are not sufficient to lower exposure levels below the applicable exposure limit, use a NIOSH approved respirator for dusts. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever work place conditions warrant a respirator's use. In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter. Seek advice from local supervisor.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

- | | |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| a) Appearance | Granular.
<i>Physical state:</i> Solid.
<i>Form:</i> Solid.
<i>Color:</i> Brown or black. |
| b) Odor | None. |
| c) Odor threshold | Not applicable. |
| d) pH | Not applicable. |
| e) Melting point/freezing point | Not available. |
| f) Initial boiling point and boiling range | Not applicable. |
| g) Flash point | Not applicable. |
| h) Evaporation rate | Not applicable. |
| i) Flammability (solid, gas) | Non flammable. |
| j) Upper/lower flammability or explosive limits | <i>Flammability limit</i>
<i>lower (%)</i> : Not applicable.
<i>upper (%)</i> : Not applicable.
<i>Explosive limit</i>
<i>lower (%)</i> : Not available.
<i>upper (%)</i> : Not available. |
| k) Vapor pressure | Not applicable. |
| l) Vapor density | Not applicable. |
| m) Relative density | Not available. |
| n) Solubility(ies) | <i>Solubility (water)</i> : Insoluble in water. |
| o) Partition coefficient (n-octanol/water) | Not applicable. |

- | | |
|------------------------------|--------------------------------------------------|
| p) Auto-ignition temperature | Not applicable. |
| q) Decomposition temperature | 1299.2 °F (704 °C) |
| r) Viscosity | Not applicable. |
| s) Other information | <i>Bulk density:</i> 800 - 900 kg/m ³ |

10. STABILITY AND REACTIVITY

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Stable under normal temperature conditions.

Possibility of hazardous reactions

Hazardous polymerization does not occur.

Conditions to avoid

Avoid incompatible materials and intense heat.

Incompatible materials

Oxidizing material. Combustible material. Reducing agents. Aluminum. Strong acids.

Hazardous decomposition products

Copper fumes.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

<i>Ingestion</i>	Harmful if swallowed.
<i>Inhalation</i>	Harmful if inhaled. May cause irritation to the respiratory system.
<i>Skin contact</i>	Causes skin irritation.
<i>Eye contact</i>	Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Coughing. May cause irritation through mechanical abrasion.

Information on toxicological effects

<i>Acute toxicity</i>	Harmful if inhaled or swallowed.
<i>Skin corrosion/irritation</i>	Causes skin irritation.
<i>Serious eye damage/eye irritation</i>	Causes serious eye irritation.

Respiratory or skin sensitization

<i>Respiratory sensitization</i>	Not classified.
<i>Skin sensitization</i>	Not classified.

Germ cell mutagenicity

Not classified.

Carcinogenicity

Not classified.

*OSHA Specifically
Regulated Substances
(29 CFR 1910.1001-1050)*

Not listed.

Reproductive toxicity

Not classified.

Specific target organ toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

May cause damage to the following organs through prolonged or repeated exposure:
Brain.

Aspiration hazard	Not classified.
Chronic effects	Prolonged exposure, usually over many years, to manganese oxide fume/dust can lead to chronic manganese poisoning, chiefly affecting the central nervous system.
Further information	Chronic exposure to breathing low levels of manganese dust or fume over a long period of time can result in "manganism," a disease of the central nervous system similar to Parkinson's Disease, gait impairment, muscle spasms and behavioral changes. Frequent inhalation of dust over a long period of time increases the risk of developing asthma, chronic lung diseases, and skin irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
Copper oxide (CAS 1317-38-0)		
Aquatic		
Crustacea EC50	Water flea (<i>Daphnia magna</i>)	0.011 - 0.039 mg/l, 48 hours
Fish LC50	Western mosquitofish (<i>Gambusia affinis</i>)	> 56000 mg/l, 96 hours

Persistence and degradability

No data available.

Bioaccumulative potential No data available.

Mobility in soil Not available.

Mobility in general The product is insoluble in water.

Other adverse effects None known.

13. DISPOSAL CONSIDERATIONS

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products

Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Rinse container at least three times to an absence of pink color before disposing. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

This product is not intended to be transported

15. REGULATORY INFORMATION

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Copper oxide (CAS 1317-38-0) LISTED

Manganese dioxide (CAS 1313-13-9) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes

Delayed Hazard - Yes

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

No

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Manganese dioxide	1313-13-9	40 - 70
Copper oxide	1317-38-0	15 - 40

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Manganese dioxide (CAS 1313-13-9)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

US state regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Copper oxide (CAS 1317-38-0)

Manganese dioxide (CAS 1313-13-9)

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Copper oxide (CAS 1317-38-0)

Manganese dioxide (CAS 1313-13-9)

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

* A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. OTHER INFORMATION

Version # 01

Further information HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings Health: 2*
Flammability: 0
Physical hazard: 0

List of abbreviations LD50: Lethal Dose, 50%.
LC50: Lethal Concentration, 50%.

References Registry of Toxic Effects of Chemical Substances (RTECS)
HSDB® - Hazardous Substances Data Bank

Disclaimer

For approved uses only. Not for drug, household, or other uses.

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. SKC Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

Latest Change(s): Updated SDS to bring into compliance with the GHS

Last Update: December 2023