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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name

: Amersite™ 20

CORROSION INHIBITOR

™ Trademark, Solenis or its subsidiaries or affiliates,

registered in various countries

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data sheet Solenis LLC 500 Hercules Road	Emergency telephone number 1-844-SOLENIS (844-765-3647) / 606-329-5705 Product Information
Wilmington, Delaware 19808 United States of America	1-844-SOLENIS (844-765-3647)
RegulatoryRequestsNA@solenis.com	,

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin irritation

: Category 2

Serious eye damage

: Category 1

GHS Label element

Hazard pictograms

Signal Word

: Danger

Hazard Statements

: Causes skin irritation.

Causes serious eye damage.

Precautionary Statements

: Prevention:

Wash skin thoroughly after handling.

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Wear eye protection/ face protection.

Wear protective gloves.

Response:

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
SODIUM COMPOUND	254504001-6224	Acute Tox. 4; H302	>= 15.00 - < 20.00
		Eye Dam. 1; H318	
INORGANIC BASE	254504001-6415	Acute Tox. 4; H302	>= 1.50 - < 5.00
		Acute Tox. 4; H312	
		Skin Corr. 1; H314	
		Eye Dam. 1; H318	
		<u> </u>	<u> </u>

Trade Secret Composition - conceal identity + concentration

SECTION 4. FIRST AID MEASURES

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General advice

: Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled

: If breathed in, move person into fresh air.

If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact

: Remove contaminated clothing. If irritation develops, get

medical attention.

If on skin, rinse well with water.

Wash contaminated clothing before re-use.

In case of eye contact

: In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

If swallowed

: Obtain medical attention.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

: Sulfur dioxide may be released if this material comes into contact with acids, water and/or ice. In contact with moisture, sulfur dioxide forms sulfuric acid which is corrosive to skin and

mucous membranes.

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through

the skin may include:

stomach or intestinal upset (nausea, vomiting, diarrhea)

irritation (nose, throat, airways)

Cough

lung edema (fluid buildup in the lung tissue)

Causes skin irritation.

Causes serious eye damage.

Notes to physician

: No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

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circumstances and the surrounding environment.

Water spray Foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: sodium sulfide residue

Sulphur oxides

carbon dioxide and carbon monoxide

sulfur dioxide potassium oxide

Specific extinguishing

methods

Product is compatible with standard fire-fighting agents.

Further information

: Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment.

Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Environmental precautions

: Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

: Keep in suitable, closed containers for disposal.

Other information

: Comply with all applicable federal, state, and local regulations.

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SECTION 7. HANDLING AND STORAGE

Advice on safe handling

: Do not breathe vapours/dust.

Container hazardous when empty. Avoid contact with skin and eyes.

Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage

: Keep container tightly closed in a dry and well-ventilated

place.

Electrical installations / working materials must comply with

the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible	Basis
SODIUM COMPOUND	254504001-	TWA	concentration 5 mg/m3	ACGIH
	6224	REL	5 mg/m3	NIOSH/GUID
		TWA	5 mg/m3	E TN OEL
INORGANIC BASE	254504001- 6415	Ceiling	2 mg/m3	ACGIH
		REL	2 mg/m3	NIOSH/GUID E
		Ceiling	2 mg/m3	TN OEL

Engineering measures

: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Hand protection

Remarks

: The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

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Eye protection

: Wear chemical splash goggles and face shield when there is

potential for exposure of the eyes or face to liquid, vapor or

mist.

Maintain eye wash station in immediate work area.

Skin and body protection

Wear resistant gloves (consult your safety equipment

supplier).

Wear as appropriate: impervious clothing Safety shoes

Choose body protection according to the amount and concentration of the dangerous substance at the work place. Discard gloves that show tears, pinholes, or signs of wear.

Hygiene measures

: Wash hands before breaks and at the end of workday.

When using do not eat or drink. When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

: liquid

Colour

: dark brown

Odour

: No data available

Odour Threshold

: No data available

рΗ

: 6.0

Melting point/freezing point

: 21.0 °F / -6.1 °C

Boiling point/boiling range

: 212 °F / 100 °C

(1,013.333333 hPa)

Calculated Phase Transition Liquid/Gas

Flash point

: Not applicable

Evaporation rate

: No data available

Flammability (solid, gas)

: No data available

Upper explosion limit

: No data available

Lower explosion limit

: No data available

Vapour pressure

: 23.3333333 hPa (20 °C)

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Calculated Vapor Pressure

Relative vapour density

: No data available

Relative density

: 1.16

Density

: 1.16 g/ml

Solubility(ies)

Water solubility

: No data available

Solubility in other solvents

: No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition

: No data available

Viscosity

Viscosity, dynamic

: No data available

Viscosity, kinematic

: No data available

Oxidizing properties

: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

: No decomposition if stored and applied as directed.

Chemical stability

: Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Product will not undergo hazardous polymerization.

Conditions to avoid

: Freezing temperatures.

Heat, flames and sparks.

Heating in air.

Incompatible materials

: Acids Alcohols

alkalis aluminum

aluminum powder

Amines

chlorinated solvents

halogenated hydrocarbons

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Metals nitrates nitrites

Strong oxidizing agents

water Zinc

Hazardous decomposition

products

carbon dioxide and carbon monoxide

potassium oxide Sulphur oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation

exposure

Skin contact **Eve Contact**

Ingestion

Acute toxicity

Not classified based on available information.

Product:

Acute inhalation toxicity

: Remarks: Excessive heat or contact with acids, water and/or

ice, releases sulfur dioxide gas which may be harmful or

deadly if inhaled.

Components:

SODIUM COMPOUND:

Acute oral toxicity

: LD 50 (Rat, male and female): 1,540 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute dermal toxicity

: LD 50 (Rat, male and female): > 2 g/kg

Method: OECD Test Guideline 402

GLP: yes

Assessment: No adverse effect has been observed in acute

dermal toxicity tests.

Remarks: Based on similar product.

INORGANIC BASE:

Acute oral toxicity

: LD 50 (Rat): 333 mg/kg

Acute dermal toxicity

: LD 50 (Rabbit): 1,260 mg/kg

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Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks: May cause skin irritation and/or dermatitis.

Components:

SODIUM COMPOUND:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Not irritating to skin

GLP: no

INORGANIC BASE: Result: Corrosive to skin

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks: May cause irreversible eye damage.

Components:

SODIUM COMPOUND:

Species: Rabbit

Result: Corrosive to eyes

Method: OECD Test Guideline 405

GLP: no

INORGANIC BASE: Result: Corrosive to eyes

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

Components:

SODIUM COMPOUND:

Test Type: Local lymph node assay

Species: Mouse

Method: OECD Test Guideline 429

Result: Did not cause sensitisation on laboratory animals.

GLP: yes

Germ cell mutagenicity

Not classified based on available information.

Components:

SODIUM COMPOUND:

Genotoxicity in vitro

: Test Type: Ames test

Test species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

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Method: OECD Test Guideline 471

Result: negative

GLP: no

Remarks: Information given is based on data obtained from

similar substances.

: Test Type: Ames test

Test species: Escherichia coli

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: no

Remarks: Information given is based on data obtained from

similar substances.

Genotoxicity in vivo

: Test Type: Micronucleus test

Test species: Mouse

Method: OECD Test Guideline 474

Result: negative

GLP: yes

Remarks: Information given is based on data obtained from

similar substances.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

Carcinogenicity:

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen

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by NTP.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to daphnia and other

aquatic invertebrates

: EC 50 (Daphnia magna (Water flea)): 1,768 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: No

Components:

Toxicity to fish

SODIUM COMPOUND:

LC 50 (Oncorhynchus mykiss (rainbow trout)): 147 - 215 mg/l

Exposure time: 96 h Test Type: static test Method: DIN 38412

Toxicity to daphnia and other

aquatic invertebrates

: EC 50 (Water flea (Daphnia magna)): 89 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to algae

: EC 50 (Desmodesmus subspicatus (green algae)): 43.9 mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

NOEC (Water flea (Daphnia magna)): > 10 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 211

Toxicity to bacteria

: EC 50 (Pseudomonas putida): 56.1 mg/l

Exposure time: 17 h

Test Type: Growth inhibition

Method: DIN 38412

INORGANIC BASE:

Toxicity to fish

: LC 50 (Western mosquitofish (Gambusia affinis)): 80 mg/l

Exposure time: 96 h Method: Static Remarks: Mortality

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Persistence and degradability

Components:

SODIUM COMPOUND:

Biodegradability

: Remarks: The methods for determining biodegradability are

not applicable to inorganic substances.

Bioaccumulative potential

Components:

No data available

Mobility in soil

Components:

No data available

Other adverse effects

No data available

Product:

Additional ecological

information

: No data available

Components:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice

: Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging

: Empty remaining contents.

Dispose of as unused product.

Empty containers should be taken to an approved waste

handling site for recycling or disposal.

Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

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	RROSION INHIBITOR chis or its subsidiaries or affilia s countries	tes,				Version: 1.3
REGULATION						_
ID NUMBER F	PROPER SHIPPING NAME	*HAZAR CLASS	RD	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
U.S. DOT - ROAD						
	Not dangerous goods					
.S. DOT - RAIL						
	Not dangerous goods					
		·				
RANSPORT CANA	Not dangerous goods					
	Tot danigorous goods					
	ADA - INLAND WATERWAYS	3				
	Not dangerous goods					
NTERNATIONAL M	MARITIME DANGEROUS GO	ODS				
P	Not dangerous goods					
	NR TRANSPORT ASSOCIAT Not dangerous goods	ION - CAF	RGO			
	<u> </u>					
	IR TRANSPORT ASSOCIAT	ION - PAS	SEN	BER		
	Not dangerous goods			11-11-		
IEYICAN REGIII A	TION FOR THE LAND TRAN	ISPORT C	OF HAZ	ZARDOUS MAT	ERIALS AND	WASTES
	Not dangerous goods					
	Not dangerous goods					

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		_
Marine pollutant	no	

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
•		(lbs)	(lbs)
POTASSIUM HYDROXIDE	1310-58-3	1000	44893.378227

SARA 311/312 Hazards

: Acute Health Hazard

SARA 313

Component(s)SARA 313

: 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.

California Prop 65

Proposition 65 warnings are not required for this product

based on the results of a risk assessment.

The components of this product are reported in the following inventories:

TSCA

: On TSCA Inventory

DSL

: All components of this product are on the Canadian DSL.

AUSTR

: On the inventory, or in compliance with the inventory

NZIOC

: On the inventory, or in compliance with the inventory

ENCS

: Not in compliance with the inventory

KECL

: On the inventory, or in compliance with the inventory

PHIL

: On the inventory, or in compliance with the inventory

IECSC

: On the inventory, or in compliance with the inventory

Inventories

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AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

Registration: Trade Secret

Chemical Name	Identification number
SODIUM COMPOUND	254504001-6224
INORGANIC BASE	254504001-6415

SECTION 16. OTHER INFORMATION

Further information

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Full text of H-Statements referred to under sections 2 and 3.

	May be seemaine to motels
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Further information

Sources of key data used to compile the Safety Data Sheet

Key literature references and sources of data

SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by the Solenis Environmental Health and Safety Department.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:

ACGIH: American Conference of Industrial Hygienists

BEI: Biological Exposure Index

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

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FG: Food grade

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement: Hazard Statement

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization

ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"

IMDG : International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx: Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL: Occupational Exposure Limit
P-Statement: Precautionary Statement
PBT: Persistent, Bioaccumulative and Toxic

PPE: Personal Protective Equipment STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV: Threshold Limit Value TWA: Time-weighted average

vPvB: Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT: Department of Transportation

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act HMIRC: Hazardous Materials Information Review Commission

HMIS: Hazardous Materials Identification System NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety and Health Administration

PMRA: Health Canada Pest Management Regulatory Agency

RTK: Right to Know

WHMIS: Workplace Hazardous Materials Information System