

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

A-151 EPDM RESURFACE AGENT

Revision date: 06/03/2009

Supplier Mule-Hide Products Co., Inc.
P.O Box 1057
Beloit, WI 53512

Manufacturer: Rohm and Haas Company
100 Independence Mall West
Philadelphia, PA 19106-2399

For non-emergency information contact: 215-592-3000

Emergency telephone

Spill Emergency 215-592-3000
Health Emergency 215-592-3000
Chemtrec 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Sodium metasilicate	6834-92-0	4.0 - 6.0%
Inorganic salt	Trade Secret	3.0 - 5.0%
Anionic/nonionic surfactant mixture	Trade Secret	1.0 - 3.0%
Water	7732-18-5	87.0 - 89.0%

3. HAZARDS IDENTIFICATION

Emergency Overview

Appearance

Form liquid clear
Colour light pink
Odour mild sweet

Hazard Summary

DANGER!

MATERIAL CAN CAUSE THE FOLLOWING:
CORROSION TO EYES
CAUSES SEVERE DIGESTIVE TRACT IRRITATION.
IRRITATING TO RESPIRATORY SYSTEM.
IRRITATING TO SKIN.

Potential Health Effects

Primary Routes of Entry: Inhalation
Eye contact
Skin contact

Eyes: Material can cause the following:
corrosion to eyes
burns
permanent eye injury

Skin: Material can cause the following:
slight irritation

Ingestion: May be harmful if swallowed.
Material can cause the following:
severe irritation of the mouth, throat, and digestive tract

Inhalation: Inhalation of vapor or mist can cause the following:
irritation of nose, throat, and lungs

Carcinogenicity

Not considered carcinogenic by NTP, IARC, and OSHA

4. FIRST AID MEASURES

Inhalation: Move to fresh air.

Skin contact: Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

Eye contact: Rinse immediately with plenty of water for at least 15 minutes. Get prompt medical attention.

Ingestion: Do NOT induce vomiting. Drink 1 or 2 glasses of water. IMMEDIATELY see a physician. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep airway clear.

5. FIRE-FIGHTING MEASURES

Flash point	Noncombustible
Lower explosion limit	Not Applicable
Upper explosion limit	Not Applicable

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards during fire fighting: Closed containers may rupture via pressure build-up when exposed to fire or extreme heat. During a fire, irritating and highly toxic gases and/or fumes may be generated during combustion or decomposition.

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

Further information: Move containers promptly out of fire zone. If removal is impossible, cool containers with water spray.
Remain upwind.
Avoid breathing smoke.
Contain run-off.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Appropriate protective equipment must be worn when handling a spill of this material. See SECTION 8, Exposure Controls/Personal Protection, for recommendations.

If exposed to material during clean-up operations, see SECTION 4, First Aid Measures, for actions to follow.

Environmental precautions

WARNING: KEEP SPILLS OF PRODUCT AS SUPPLIED OUT OF MUNICIPAL SEWERS AND OPEN BODIES OF WATER. DO NOT DISCHARGE CLEANING RUNOFFS DIRECTLY TO OPEN BODIES OF WATER.

Methods for cleaning up

Evacuate personnel to safe areas.

Ventilate the area.

Floor may be slippery; use care to avoid falling.

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Sweep up or vacuum up spillage and collect in suitable container for disposal.

Avoid breathing vapor.

Avoid all contact.

7. HANDLING AND STORAGE

Handling

Vapors can be evolved when material is heated during processing operations. See SECTION 8, Exposure Controls/Personal Protection, for types of ventilation required. Wash after handling and shower at end of work period.

Storage

Storage conditions: Avoid temperature extremes during storage; ambient temperature preferred.

Store out of direct sunlight in a cool place. Keep containers tightly closed in a cool, well-ventilated place.

Do not store this material in containers made of the following: aluminum

Further information:

CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all MSDS and label warnings even after container is emptied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit(s)

Exposure limits are listed below, if they exist.

Eye protection: Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent). Eye protection worn must be compatible with respiratory protection system employed.

Hand protection: Chemical-resistant gloves should be worn whenever this material is handled. The glove(s) listed below may provide protection against permeation. (Gloves of other chemically resistant materials may not provide adequate protection): Nitrile rubber butyl-rubber. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water. Gloves should be decontaminated before discarding.

Skin and body protection: Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact.

Respiratory protection: A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements or equivalent must be followed whenever workplace conditions warrant a respirator's use. None required under normal operating conditions. Where vapors and/or mists may occur, wear a properly fitted NIOSH approved (or equivalent) half-mask, air-purifying respirator. Air-purifying respirators should be equipped with NIOSH approved (or equivalent) organic vapor cartridges and N95 filters. If oil mist is present, use R95 or P95 filters.

Protective measures: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Engineering measures: Use local exhaust ventilation with a minimum capture velocity of 100 ft/min. (0.5 m/sec.) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	liquid clear
Colour	light pink
Odour	mild sweet
pH	13.0 - 13.5
Boiling point/boiling range	100 °C (212.00 °F) Water
Melting point/range	0 °C (32 °F) Water
Flash point	Noncombustible
Lower explosion limit	Not Applicable
Upper explosion limit	Not Applicable
Vapour pressure	17.0 mmHg at 20 °C (68.00 °F) Water
Relative vapour density	<1.0 Water
Water solubility	completely soluble
Relative density	no data available
Viscosity, dynamic	no data available
Evaporation rate	<1.00 Water
Percent volatility	87 - 89 % Water

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Hazardous reactions	This material is considered stable.
Materials to avoid	Avoid contact with the following: Strong oxidizing agents Strong acids and strong bases aluminum
Hazardous decomposition products	There are no known hazardous decomposition products for this material.,
polymerisation	Product will not undergo hazardous polymerization.

11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity	LC50 rat 4 h >5 mg/l aerosol
Acute dermal toxicity	LD50 rat >2,000 mg/kg
Skin irritation	rabbit slight irritation
Eye irritation	rabbit Corrosive

Component: **Sodium metasilicate**

Acute oral toxicity LD50 rat 1,152 - 1,349 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity effects	
Toxicity to fish	LC50 Rainbow trout (<i>Oncorhynchus mykiss</i>) 96 h > 1,000 mg/l
Toxicity to fish	NOEC Rainbow trout (<i>Oncorhynchus mykiss</i>) 96 h 500 mg/l
Toxicity to algae	EC50 Algae (<i>Selenastrum capricornutum</i>) 96 h > 1,000 mg/l based on cell density, growth rate and biomass
Toxicity to algae	NOEC Algae (<i>Selenastrum capricornutum</i>) 96 h 1,000 mg/l based on cell density and growth rate
Toxicity to algae	NOEC Algae (<i>Selenastrum capricornutum</i>) 96 h 250 mg/l based on biomass

Toxicity to aquatic invertebrates EC50 Daphnia magna 48 h
> 1,000 mg/l

Toxicity to aquatic invertebrates NOEC Daphnia magna 48 h
500 mg/l

13. DISPOSAL CONSIDERATIONS

Environmental precautions: WARNING: KEEP SPILLS OF PRODUCT AS SUPPLIED OUT OF MUNICIPAL SEWERS AND OPEN BODIES OF WATER. DO NOT DISCHARGE CLEANING RUNOFFS DIRECTLY TO OPEN BODIES OF WATER.

Disposal

Waste Classification: 40 CFR 261.20 - .24 - Characteristic Waste D002

When a decision is made to discard this material as supplied, it is classified as a RCRA hazardous waste with the characteristic of corrosivity.

Incinerate liquid and contaminated solids in accordance with local, state, and federal regulations. (See 40 CFR 268)

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT

Proper shipping name	Caustic alkali liquids, n.o.s.(Sodium metasilicate)
UN-Number	UN 1719
Class	8
Packing group	III

IMO/IMDG

Proper shipping name	CAUSTIC ALKALI LIQUID, N.O.S.(Sodium metasilicate)
UN-Number	UN 1719
Class	8
Packing group	III

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations

15. REGULATORY INFORMATION

Workplace Classification

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

This product is a 'controlled product' under the Canadian Workplace Hazardous Materials Information System (WHMIS).

SARA TITLE III: Section 311/312 Categorizations (40CFR370): Acute Health Hazard

CERCLA Information (40CFR302.4)

This material is regulated under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304. This material is or contains chemical(s) listed in 40 CFR Table 302.4 or nondesignated RCRA ICR substance(s). (Nondesignated ICR substances apply to materials that will not be reused.) The Reportable Quantity(s) (RQ) are listed below. Releases in excess of its reportable quantity must be reported to the National Response Center (1-800-424-8802) and to the appropriate state and local emergency response organizations.
D002, 100lbs.

US. Toxic Substances Control Act (TSCA): All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

16. OTHER INFORMATION

Hazard Rating

	Health	Fire	Reactivity
HMIS	3	0	0

Legend

ACGIH	American Conference of Governmental Industrial Hygienists
BAC	Butyl acetate
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit (STEL):
TLV	Threshold Limit Value
TWA	Time Weighted Average (TWA):
	Bar denotes a revision from prior MSDS.

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. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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