





SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	2130	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	ARMOR SEAL	EMERGENCY TELEPHONE:	1-800-241-8180
PRODUCT DESCRIPTION:	Liquid Densifier for Concrete	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION: Eye Dam. 1 H318 Causes serious eye damage. Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation.	SIGNAL WORD: DANGER	SYMBOL:		
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Classification according to Directive 67/548/EEC or Directive 1999/45/EC

May cause skin and eye irritation.

Information concerning particular hazards for human and environment:

The product has to be labeled due to internationally acknowledged calculation procedures using the latest valid versions.

Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

Hazard-determining components of labeling:

Silicic acid, sodium salt

HAZARD STATEMENTS:

Harmful if swallowed.
Causes skin irritation.
Causes serious eye damage.

PRECAUTIONARY STATEMENTS:

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Wear protective gloves/protective clothing/eye protection/face protection.

DISPOSAL:

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

HAZARDS NOT OTHERWISE SPECIFIED:

Not applicable.

3. Composition / Information on Ingredients

Chemical Name	CAS	Concentration % by Weight
Silicic acid, sodium salt	1344-09-8	10-25

Additional information: For the wording of the listed risk phrases refer to Section 16.

4. First Aid Measures

EMERGENCY OVERVIEW

WARNING: Immediately remove any clothing soiled by the product.

EYES: Rinse opened eye for several minutes under running water. Then consult a doctor.

SKIN: If skin irritation continues, consult a doctor.

INHALATION:

In case of unconsciousness, place patient stably in side position for transportation.

INGESTION:

Seek medical treatment.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

No further relevant information available.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

No further relevant information available.

5. Fire-Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

No further relevant information available.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

Wear protective equipment. Keep unprotected persons away.

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:

Dilute with plenty of water. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

REFERENCE TO OTHER SECTIONS:

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7. Handling and Storage

PRECAUTIONS FOR SAFE HANDLING:

Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.

INFORMATION ABOUT PROTECTION AGAIN EXPLOSIONS AND FIRES:

No special measures required.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

STORAGE:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

SPECIFIC END USES(s):

No further relevant information available.

8. Exposure Controls / Personal Protection

ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL SYSTEMS:

No further data; see Section 7.

CONTROL PARAMETERS

COMPONENTS WITH LIMIT VALUES THAT REQUIRE MONITORING AT THE WORKPLACE:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

ADDITIONAL INFORMATION:

The lists that were valid during the creation were used as basis.

PERSONAL PROTECTIVE EQUIPMENT AND HYGIENIC MEASURES:



Keep away from foodstuffs, beverages, and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the skin.
Avoid contact with the eyes and skin.

Respiratory: Not required.

Skin: Protection of hands: Protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye: Wear appropriate eye protection to prevent eye contact.

9. Physical & Chemical Properties

APPEARANCE:		FLAMMABILITY(solid, gaseous):	Not applicable.
Form:	Liquid.	FLASH POINT:	Not applicable.
Color:	According to product specification.	DANGER OF EXPLOSION:	Product does not present an explosion hazard.
ODOR:	Characteristic.	Explosive Limit – lower (%):	Not determined.
ODOR THRESHOLD:	Not determined.	Explosive Limit – upper (%):	Not determined.
pH:	Not determined.	VAPOR PRESSURE(20 °C):	23 hPa (17 mm Hg)
MELTING/MELTING RANGE:	Undetermined.	VAPOR DENSITY:	Not determined.
BOILING POINT/RANGE:	100 °C (212 °F)	RELATIVE DENSITY:	Not determined.
PARTITION COEFFICIENT (n-octanol/water):	Not determined.	SOLUBILITY IN / MISCIBILITY WITH WATER:	Fully miscible
VISCOSITY(kinematic/dynamic):	Not determined.	AUTO-IGNITION TEMP:	Product is not self-igniting.
Solvent content:		DECOMPOSITION TEMP:	Not determined.
Organic solvents:	0.0 %		
Water:	76.0 %		
Density at 20 °C:	1.21933 g/cm ³ (10.175 lbs/gal)	EVAPORATION RATE:	Not determined.
Solids content:	24.0 %	VOC:	Contains 0 g/L.
Other information	No further relevant information available.		

10. Stability & Reactivity Information

HAZARDOUS DECOMPOSITION PRODUCTS:

No dangerous decomposition products known.

INCOMPATIBLE MATERIALS:

No further relevant information available.

CONDITIONS TO AVOID:

No further relevant information available.

DECOMPOSITION PRODUCTS CONDITIONS TO AVOID:

No decomposition if used according to specifications.

POSSIBILITY OF HAZARDOUS REACTIONS:

No dangerous reactions known.

11. Toxicological Information

ACUTE TOXICITY:

EYES: No irritating effect known.

SKIN: May cause skin irritation.

SENSITIZATION: No sensitizing effects known.

INHALATION: No additional information available.

INGESTION: No additional information available.

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

CARCINOGENIC INFORMATION:

IARC (International Agency for Research on Cancer): None of the ingredients is listed.

NTP (National Toxicology Program): None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients is listed.

12. Ecological Information

TOXICITY:

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

ADDITIONAL ECOLOGICAL INFORMATION:

General notes: Water hazard class 1 (Self-assessment): Slightly hazardous for water

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

OTHER ADVERSE EFFECTS:

No further relevant information available.

13. Disposal Consideration

Must not be disposed of as normal garbage. Do not allow product to reach sewage system. It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations. Disposal must be made according to Federal, State, and Local regulations.

Recommended cleansing agent:

Water, if necessary with cleansing agents.

14. Transportation Information

UN-Number

DOT, ADR, IMDG, IATA Not Regulated

UN proper shipping name

ADR: Not Regulated

Transport hazard class(es)

DOT, ADR, IMDG, IATA

Class N/A

Packing group

DOT, ADR, IMDG, IATA III

Environmental hazards:

Marine pollutant: No

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information:

ADR

U.S. Domestic Ground Shipments: Same as listed for Standard Shipments above.

U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments: Same as listed for Standard Shipments above.

Emergency Response Guide (ERG) Number: Not determine

UN "Model Regulation":

UN-, -, N/A, III



15. Regulatory Information

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

Sara

Section 355 (extremely hazardous substances):

None of the ingredient is listed.

Section 313 (Specific toxic chemical listings):

This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

Chemicals known to the State of California (Prop. 65) to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Carcinogenicity categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS)

Hazard-determining components of labeling:

Silicic acid, sodium salt

National regulations:

Water hazard class: Water hazard class 1 (Self-assessment): Slightly hazardous for water.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Other Information

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

N/A = Not Applicable; N/D = Not Determined

NFPA	Health Hazards: 1	Flammability: 0	Instability: 0	Physical & Chemical Properties:
HMIS	Health Hazards: 1	Flammability: 0	Physical hazards: 0	Personal protection:

DISCLAIMER:

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.