

SAFETY DATA SHEET

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier:

Trade Name : **Crystalit**
Chemical Name : Acrylamide/Potassium Acrylate Copolymer,
Crosslinked
CAS Number : 31212-13-2

1.2 Recommended use of the chemical and restrictions on use

Recommended Use : Industrial Use
Non-recommended Use : None known

1.3 Details of the supplier of the safety data sheet

Company : **Pharmacal Research Labs. Inc.**
562 Captain Neville Dr.
Waterbury, CT 06705

Telephone : (203) 755-4908
FAX: : (203) 755-4309

1.4 Emergency telephone number

EMERGENCY TELEPHONE: 24 hours a day, 7 days a week
CHEMTREC 1-800-424-9300 COMPANY CODE: CCN17207
NON-EMERGENCY TELEPHONE:
(203) 755-4908

2. Hazard Identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture

2.2 Label elements

Not a hazardous substance or mixture

2.3 Other Hazards

None known

3. Composition/Information on Ingredients

3.1 Substances

Classification according to regulation 29CFR 1910.1200

| | | |
|----------------|---|--|
| Substance name | : | 2 propenoic acid, potassium salt, polymer with 2-propenamamide |
| CAS number | : | 31212-13-2 |
| Synonyms | : | Acrylamide/Potassium Acrylate Copolymer, Crosslinked |

3.2 Mixtures

4. First Aid Measures

4.1 Description of first aid measures

| | | |
|------------|---|--|
| Eyes | : | Immediately flush with plenty of water. Remove particles remaining under the eyelids. Remove contact lenses. Seek medical attention if irritation persists. |
| Skin | : | Remove polyacrylate absorbent dust from skin using soap and water. |
| Ingestion | : | Non-toxic by ingestion; if adverse symptoms appear, seek medical attention. Remove as much as possible from the mouth; if conscious, induce vomiting and rinse mouth thoroughly with plenty of water |
| Inhalation | : | If inhaled, move to source of fresh air. Seek medical attention if symptoms persist. |

4.2 Most important symptoms and effects, both acute and delayed

| | | |
|----------|---|----------------------------|
| Symptoms | : | No known symptoms to date. |
|----------|---|----------------------------|

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

5.1 Extinguishing Media

| | | |
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| Suitable media | : | Foam, carbon dioxide, dry powder, water spray. Extremely slippery conditions are created if spilled product comes in contact with water. |
| Unsuitable media | : | Full water jet |

5.2 Hazardous Combustion Products

In the event of fire, the following can be released: Carbon Dioxide, Carbon Monoxide.

5.3 Fire Fighting Instructions

Firefighters should wear full protective clothing including self-contained breathing apparatus.

Do not inhale explosion and /or combustion gases.

Use self-contained breathing apparatus.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment; avoid contact with skin and eyes; prohibit inhalation of dust. Use caution after product contacts water as extremely slippery conditions will result.

6.2 Environmental precautions

In the event of a spill, do not flush into drains or waterways; product swells in contact with water. Large quantities can cause serious clogs in sewers or drainage systems.

See section 6.3 for containment and cleanup.

6.3 Methods and material for containment and cleaning up

Containment Procedures

Avoid respirable dust. Do not sweep dry product; pick up mechanically. When possible, vacuum the dry product using a HEPA filter (mandatory when using a vacuum). If no vacuum is available, moisten the product, scoop up and place into an approved disposable container.

Clean up procedures

Use caution after product contacts water as extremely slippery conditions will result. Remove as much product as possible by mechanical means. Residuals maybe flushed with water into the drain for normal wastewater treatment. This is a non-hazardous waste suitable for disposal in an approved solid waste landfill.

7. Handling and storage

7.1 Precautions for safe handling

| | | |
|-----------------------------|---|---|
| Advice on safe handling | : | Handle as an eye and respiratory tract irritant. Ensure adequate ventilation. |
| Hygiene | : | Wash hands before breaks and after work. Do not eat, drink or smoke when working. Remove soiled or soaked clothing immediately. |
| General protective measures | : | Do not inhale dust. Avoid contact with eyes and skin. |

7.2 Conditions for safe storage, including any incompatibles

Prevention of fire and explosion

Avoid forming dust.

Storage

Store in a dry, closed container.

8. Exposure controls/personal protection

8.1 Control parameters

This product is not regulated as a hazardous material and it contains no substances with occupational exposure limit values (US). However, there is the potential for respiratory tract irritation as a result of inhalation of this material as a respirable dust and an 8 hour exposure limit of 0.05 mg/m³ is recommended.

8.2 Exposure controls

Engineering controls

Provide local exhaust ventilation to maintain worker exposure to less than 0.05 mg/m³ respirable dust over an 8 hour period.

Personal protective equipment

Obey reasonable safety precautions and practice good housekeeping. Wash thoroughly after handling.

| | | |
|------------------------|---|---|
| Eye protection | : | This product is not classified as a hazardous substance. Any necessity for eye protection must be determined within the scope of a risk assessment. |
| Hand protection | : | Glove material: Use impervious gloves |
| Body protection | : | Protective clothing |
| Respiratory protection | : | In case of irritating dust formation, wear a standard dust mask. Wear a respirator with a high efficiency filter if particulate concentration in the work area exceeds 0.05 mg/m ³ respirable dust over an 8 hour time period. |

9. Physical and chemical properties

9.1 Information on the basic physical and chemical properties

| | | |
|---|---|---|
| Physical State: | : | Solid |
| Form | : | Granular |
| Appearance | : | White granular powder |
| Odor | : | None |
| Odor Threshold | : | No data available |
| pH | : | Approx. 6 (in a 1.0g/L in 0.9% NaCl-solution) |
| Melting Point | : | > 390 °F |
| Boiling Point | : | Not applicable |
| Flash Point | : | Not applicable |
| Evaporation Rate | : | No data available |
| Flammability | : | No data available |
| Upper Explosion/ Ignition Limit | : | Not measured |
| Lower Explosion Limit | : | Not measured |
| Vapor Pressure | : | < 15 mm Hg (<10 hPa) |
| Relative Vapor Density | : | No data available |
| Relative Density | : | No data available |
| Specific Gravity (Bulk Density) | : | 0.6 – 0.7 g/ml |
| Solubility | : | Not measured |
| Water Solubility | : | Insoluble |
| Partition Coefficient (n-octanol/water) | : | No data available |
| Autoignition Temperature | : | Not measured |
| Thermal Decomposition | : | Above 200°C |
| Viscosity, kinematic | : | Not applicable |
| Viscosity, dynamic | : | Not applicable |

9.2 Other information

10. Stability and reactivity

Health: 1
 NFPA Ratings : Fire: 0
 Reactivity: 0
 Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic Hazard

10.1 Reactivity

Stable under normal temperatures and pressures.

10.2 Chemical stability

The product is stable under normal conditions.

10.3 Possibility of hazardous reaction

None known to date.

10.4 Conditions to avoid

Temperatures >200°C

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

None with proper storage and handling.

11. Toxicological information

11.1 Information on toxicological effects

| | | |
|------------------------------------|---|--|
| Acute toxicity (oral) | : | LD ₅₀ rat Dose: > 5,000 mg/kg Method: Limit test |
| Acute toxicity (inhalation) | : | No data available |
| Acute toxicity (dermal) | : | LD ₅₀ rat Dose: > 2,000 mg/kg Method: Limit test |
| Irritation/corrosion of the skin | : | Species: rabbit Result: non-irritant Method: OECD 404 |
| Serious eye damage/ eye irritation | : | Species: rabbit Result: mild irritant Method: OECD 405 |
| Respiratory/skin sensitization | : | Species: Guinea Pig Result: non-sensitizing Method: OECD 406 |
| Repeated dose toxicity | : | No data available |
| Genotoxicity in vitro | : | Result: not mutagenic Method: Mouse lymphoma test Remarks: not mutagenic in <i>in vivo</i> and <i>in vitro</i> tests |

US. National Toxicology Program (NTP) Report on Carcinogens

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

US. IARC Monographs on Occupational Exposures to Chemical Agents

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.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

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.

US. ACGIH Threshold Limit Values

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH

| | | |
|--|---|---|
| Reprotoxicity/Fertility | : | Not applicable |
| Reprotoxicity/Development/Teratogenicity | : | Not applicable |
| Specific Target Organ Toxicity-Single exposure | : | No data available |
| Specific Target Organ Toxicity-Repeated exposure | : | No data available |
| Aspiration hazard | : | No aspiration toxicity classification |
| Other information | : | Proper use provided, no adverse health effects have been observed or have come to our knowledge |

12. Ecological information

12.1 Toxicity

| | | | |
|---|---|---|--|
| Aquatoxicity, fish | : | Species: <i>Leuciscus idus</i> Exposure duration: 96 h LC50: > 5,500 mg/L Method: OECD 203 | Species: <i>Danio rerio</i> Exposure duration: 96 h LC50: > 4,000 mg/L Method: OECD 203 |
| Aquatoxicity invertebrates | : | No data available | |
| Aquatoxicity, algae/aquatic plants | : | No data available | |
| Toxicity in microorganisms | : | Species: <i>Pseudomonas putida</i> Exposure duration: 24 h EC50: >6,000 mg/L | |
| Chronic toxicity in fish | : | No data available | |
| Chronic toxicity in aquatic invertebrates | : | No data available | |
| Toxicity in organisms which live in soil | : | No data available | |
| Ciliate toxicity: | : | <i>Tetrahymena pyriformis</i> EC ₅₀ > 6000 mg/l Method: Erlanger Ciliate Tests (Prof Graf) | |

| | | |
|--------------------------------|---|---|
| Biodegradability: | : | Method: OECD Nr. 302B Practically no degradation. |
| Physico-chemical removability: | : | The product is easy to eliminate in water-treatment plants due to its insolubility. |

12.2 Persistence and degradability

| | | |
|--------------------------|---|-------------------|
| Photodegradation | : | No data available |
| Biological degradability | : | No data available |

12.3 Bioaccumulative potential

| | | |
|-----------------|---|-------------------|
| Bioaccumulation | : | No data available |
|-----------------|---|-------------------|

12.4 Mobility in soil

| | | |
|----------------------------|---|--|
| Environmental distribution | : | Immobile in landfills and soil systems (> 90% retention) |
|----------------------------|---|--|

12.5 Results of Persistent, Bioaccumulative and Toxic (PBT) and Very Persistent and Very Bioaccumulative (vPvB) assessment

| | | |
|-------------------------|---|-------------------|
| PBT and vPvB assessment | : | No data available |
|-------------------------|---|-------------------|

12.6 Other adverse effects

| | | |
|---------------------|---|---|
| General Information | : | The product is considered to be a weak water pollutant. |
|---------------------|---|---|

12.7 Additional information

| | | |
|------------------------|---|---|
| Additional information | : | Polyacrylate absorbents are relatively inert in aerobic and anaerobic conditions. They are also compatible with incineration of municipal solid waste. Incidental down-the-drain disposal of small quantities of polyacrylate absorbents will not affect the performance of wastewater treatment systems. |
|------------------------|---|---|

13. Disposal considerations

13.1 Waste treatment methods

| | | |
|------------------------|---|--|
| Product | : | Dispose of in accordance with Local, State, and Federal regulations. This product is a non-hazardous waste material suitable for approved solid waste landfills. |
| Contaminated packaging | : | If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards. |
| General | : | Destroy the product by incineration if possible or discard in accordance with local, state and federal regulations |

14. Transport information

Not dangerous according to transport regulations

| | | | |
|------|-------------------------------------|---|------|
| 14.1 | UN number | : | None |
| 14.2 | UN proper shipping name | : | None |
| 14.3 | Transport hazard class(es) | : | None |
| 14.4 | Packing group | : | None |
| 14.5 | Environmental hazards | : | None |
| 14.6 | Special precautions for user | : | None |

15. Regulatory information

Canada:

This product has been classified in accordance with the hazard criteria of the controlled Products Regulation and the (M)SDS contains all information required by the Controlled Products Regulation

| | | | |
|--------|--|---|--|
| | | : | <u>WHMIS Classification</u> |
| Canada | | : | Not rated |
| | | : | This product does not contain components on the WHMIS Ingredient Disclosure List |

US Regulations

| | | |
|--|---|-----------------|
| SARA Title III Section 311/312 Hazard categories | : | No SARA Hazards |
| Other regulations | : | None |

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

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

State Right to Know

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ZUSPA_RTK: No components subject to "Right-to-know" legislation in the following states: PA

ZUSMA_RTK: No components subject to "Right-to-know" legislation in the following states: MA

ZUSNJ_RTK: No components subject to "Right-to-know" legislation in the following states: NJ

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other harm.

| | | |
|----------------------------|---|---|
| HMIS Ratings | : | Health: 1 Flammability: 0 Reactivity: 0 Personal Protection: 0 |
| | | |
| Notification Status | | |
| TSCA (USA) | : | Listed/registered or exempted |
| DSL (CDN) | : | Listed/registered or exempted |

16. Other information

List of references

| | | |
|---------------------------|---|--|
| Other information | : | Comply with national laws regulating employee instruction |
| Revision date | : | 30 July 2021 |
| Supersedes revision dated | : | 7 May 2015 |
| Reason for revision | : | Review and update all sections Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document. |
| | | |
| Key | : | N/A – Not Applicable NE – Not Established |

IMPORTANT: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the time of publishing. The information given is designed only as a guidance for safe handling, use processing, storage, transportation, disposal and release and is not 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.



Legend

| | |
|------------------|---|
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| AND | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADNR | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN) |
| ASTM | American Society for Testing and Materials |
| ATP | Adaptation to Technical Progress |
| BCF | Bioconcentration Factor |
| BetrSichV | German Ordinance on Industrial Safety and Health |
| c.c. | closed cup |
| CAS | Chemical Abstract Services |
| CESIO | European Committee of Organic Surfactants and their Intermediates |
| ChemG | German Chemicals Act |
| CMR | Carcinogenic-mutagenic-toxic for reproduction |
| DIN | German Institute for Standardization |
| DMEL | Derived minimum effect level |
| DNEL | Derived no effect level |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EC50 | Half maximal effective concentration |
| GefStoffV | German Ordinance on Hazardous Substances |
| GGVSEB | German Ordinance for road, rail and inland waterway transportation of dangerous goods |
| GGVSee | German Ordinance for sea transportation of dangerous goods |
| GLP | Good Laboratory Practice |
| GMO | Genetic Modified Organism |
| IATA | International Air Transport Association |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |
| ISO | International Organization for Standardization |
| LOAEL | Lowest observed adverse effect level |
| LOEL | Lowest observed effect level |
| NOAEL | No observed adverse effect level |
| NOEC | No observed effect concentration |
| NOEL | No observed effect level |
| o.c. | open cup |
| OECD | Organisation for Economic Cooperation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent, Bioaccumulative, toxic |
| PEC | Predicted effect concentration |
| PNEC | Predicted no effect concentration |
| REACH | REACH registration |
| RID | Convention concerning International Carriage by Rail |
| STOT | Specific Target Organ Toxicity |
| SVHC | Substances of Very High Concern |
| TA | Technical Instructions |
| TPR | Third Party Representative (Art. 4) |
| TRGS | Technical Rules for Hazardous Substances |
| VCI | German Chemical Industry Association |
| VPvB | Very persistent, very Bioaccumulative |
| VOC | Volatile Organic Compounds |
| VwVwS | German Administrative Regulation on the Classification of Substances Hazardous to Water into Water Hazard Classes |
| WGK | Water Hazard Class |
| WHO | World Health Organization |