

Safety Data Sheet

ADVANCE SOLID

Version: V1.2301

Report No.: ATS23J

Creation Date: 2023/10/10

*Prepared according to EU regulation No. 1907/2006

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

Product identifier

| | |
|---------------------------|---|
| Product Name | ADVANCE SOLID |
| CAS No. | 9003-04-7 (Acrylic acid polymer) |
| EC No. | 618-349-8 (Acrylic acid polymer) |
| Molecular Formula | (C ₃ H ₃ NaO ₂) _n (Acrylic acid polymer) |
| REACH Registration Number | - |

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

| | |
|--------------------------|---------------------------|
| Relevant identified uses | Water/liquid solidifying. |
| Uses advised against | No special note. |

Details of the supplier of the Safety Data Sheet

| | |
|------------------------|--|
| Name of the company | B.S. TRADING BV |
| Address of the company | SAN FRANCISCO STRAAT 32 |
| Post code | 1175RE |
| Telephone number | +31-20-4100406 |
| Fax number | n.v.t. |
| E-mail address | info@coldskin.nl |

Emergency phone number


| | |
|------------------------|----------------|
| Emergency phone number | +31-20-4100406 |
|------------------------|----------------|

2 Hazards identification

CLP classification according to Regulation (EC) No. 1272/2008

| | |
|-----------------------|------------|
| Eye Damage/Irritation | Category 2 |
|-----------------------|------------|

Label elements

| | |
|-------------------|---|
| Hazard pictograms |  |
| Signal word | Warning |

Hazard statements

| | |
|------|-------------------------------|
| H319 | Causes serious eye irritation |
|------|-------------------------------|

Precautionary statements

◆ Prevention

| | |
|------|--|
| P264 | Wash ... thoroughly after handling. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

◆ Response

| | |
|----------------|--|
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

◆ Storage

| | |
|---------|----------------|
| Storage | Not applicable |
|---------|----------------|

◆ Disposal

| | |
|----------|----------------|
| Disposal | Not applicable |
|----------|----------------|

Other hazards

| | |
|--|----------------|
| | Not applicable |
|--|----------------|

3 Component

| Component | Cas No. | EC No. | Index No. | Hazard classification according to CLP | Concentration (weight percent, %) |
|----------------------|-----------|-----------|-----------|---|-----------------------------------|
| Acrylic acid polymer | 9003-04-7 | 618-349-8 | - | Eye Damage/Irritation, Category 2, H319 | > 95 |
| Water | 7732-18-5 | 231-791-2 | - | Not Classified | < 4.5 |
| Pigment Yellow | | | CI19140 | Not Classified | < 0.5 |

4 First aid measures

Description of first aid measures

| | |
|----------------------------|--|
| General advice | Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance. |
| Eye contact | First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor. |
| Skin contact | Remove contaminated clothes. |
| Ingestion | Rinse mouth. |
| Inhalation | Fresh air, rest. |
| Protecting of first-aiders | Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination. |

Most important symptoms and effects, both acute and delayed

| | |
|---|--|
| 1 | Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. |
|---|--|

Indication of any immediate medical attention and special treatment needed

| | |
|---|--------------------------|
| 1 | Treat symptomatically. |
| 2 | Symptoms may be delayed. |

5 Firefighting measures

Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | Use extinguishing media suitable for surrounding area. |
| Unsuitable extinguishing media | There is no restriction on the type of extinguisher which may be used. |

Specific hazards arising from the substance or mixture

| | |
|---|---|
| 1 | Containers may explode when heated. |
| 2 | May expansion or decompose explosively when heated or involved in fire. |

Advice for firefighters

| | |
|---|---|
| 1 | As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear. |
| 2 | Fight fire from a safe distance, with adequate cover. |
| 3 | Prevent fire extinguishing water from contaminating surface water or the ground water system. |

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

| | |
|---|---|
| 1 | Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. |
| 2 | Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. |
| 3 | Use personal protective equipment. Avoid breathing vapours, mist, gas or dust. |

Environmental precautions

| | |
|---|---|
| 1 | Prevent further leakage or spillage if safe to do so. |
| 2 | Discharge into the environment must be avoided. |

Methods and materials for containment and cleaning up

| | |
|---|--|
| 1 | Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding. |
| 2 | Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. |
| 3 | Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. |

7 Handling and storage

Precautions for handling

◆ Protective measures

| | |
|---|---|
| 1 | Handling is performed in a well ventilated place. |
| 2 | Wear suitable protective equipment. |
| 3 | Avoid contact with skin and eyes. |

◆ Measures to prevent fire

| | |
|---|---|
| 1 | Keep away from heat/sparks/open flames/ hot surfaces. |
|---|---|

◆ Measures to prevent aerosol and dust generation

| | |
|---|---------------------------------------|
| 1 | Avoid formation of dust and aerosols. |
|---|---------------------------------------|

2 Provide appropriate exhaust ventilation at places where dust is formed.

◆ Advice on general occupational hygiene

1 Wash hands and face after using of the substances.

2 Replace the contaminated clothing immediately.

| **Conditions for safe storage, including any incompatibilities**

1 Keep containers tightly closed.

2 Keep containers in a dry, cool and well-ventilated place.

3 Keep away from heat/sparks/open flames/ hot surfaces.

4 Store away from incompatible materials and foodstuff containers.

| **Specific end uses**

1 In addition to use mentioned in the first parts, unforeseen other specific end uses.

8 Exposure controls/personal protection

| **Control parameters**

◆ Occupational Exposure limit values

| | |
|---|--------------------------|
| Occupational Exposure limit values | No information available |
|---|--------------------------|

◆ Biological limit values:

| | |
|--------------------------------|--------------------------|
| Biological limit values | No information available |
|--------------------------------|--------------------------|

◆ Monitoring methods

1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

2 GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air (Series standard) .

◆ Derived No effect level (DNEL)

| Component | Route of exposure | DNEL for Workers | | | |
|-----------------------------------|-------------------|----------------------|-------------------------|------------------------|---------------------------|
| | | Acute effects(local) | Acute effects(systemic) | Chronic effects(local) | Chronic effects(systemic) |
| Acrylic acid polymer 9003-04-7 | Inhalation | No data available | No data available | No data available | No data available |
| | Oral | No data available | No data available | No data available | No data available |
| | Dermal | No data available | No data available | No data available | No data available |
| Water 7732-18-5 | Inhalation | No data available | No data available | No data available | No data available |
| | Oral | No data available | No data available | No data available | No data available |
| | Dermal | No data available | No data available | No data available | No data available |

◆ Predicted No Effect Concentration (PNEC)

| | |
|---|--------------------------|
| Predicted No Effect Concentration (PNEC) | No information available |
|---|--------------------------|

| **Engineering controls**

1 Ensure adequate ventilation, especially in confined areas.

2 Ensure that eyewash stations and safety showers are close to the workstation location.

3 Use explosion-proof electrical/ventilating/lighting/equipment.

4 | Set up emergency exit and necessary risk-elimination area.

Personal protection equipment

| | |
|--------------------------|--|
| General requirement |  |
| Eye protection | Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US). |
| Hand protection | Wear protective gloves (such as butyl rubber) , passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard. |
| Respiratory protection | If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges. |
| Skin and body protection | Wear fire/flame resistant/retardant clothing and antistatic boots. |

9 Physical and chemical properties

Physical and chemical properties

| | |
|---|--|
| Appearance | White particles |
| Odor | Slight odor |
| Odor threshold | No information available |
| pH | 5.5~8.5 |
| Melting point/freezing point(°C) | No information available |
| Initial boiling point and boiling range(°C) | >35 |
| Flash point(Closed cup,°C) | Not applicable |
| Evaporation rate | Not applicable |
| Flammability | Not flammable |
| Upper/lower explosive limits[%(v/v)] | Upper limit: Not applicable; Lower limit: Not applicable |
| Vapor pressure | Not applicable |
| Vapor density(Air = 1) | Not applicable |
| Relative density(Water=1) | 0.6~0.9 |
| Solubility(mg/L) | Insoluble in water (Water into gelatinous) |
| n-octanol/water partition coefficient | No information available |
| Auto-ignition temperature(°C) | No information available |
| Decomposition temperature(°C) | No information available |
| Viscosity(mm ² /s) | Not applicable |
| Explosive properties | Not explosive |
| Oxidizing properties | Not oxidizing |

10 | Stability and reactivity

| | |
|---|---|
| Reactivity | Contact with incompatible substances can cause decomposition or other chemical reactions. |
| Chemical stability | Stable under proper operation and storage conditions. |
| Possibility of hazardous reactions | In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen. |
| Conditions to avoid | Incompatible materials, heat, flame and spark. |
| Incompatible materials | Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide. |
| Hazardous decomposition products | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

11 | Toxicological information

| Acute toxicity

| Component | Cas No. | LD ₅₀ (oral) | LD ₅₀ (dermal) | LC ₅₀ (inhalation,4h) |
|----------------------|-----------|-------------------------|---------------------------|----------------------------------|
| Acrylic acid polymer | 9003-04-7 | > 40000mg/kg(Rat) | No information available | No information available |

| Carcinogenicity

| ID | Cas No. | Component | IARC | NTP |
|----|-----------|----------------------|------------|------------|
| 1 | 9003-04-7 | Acrylic acid polymer | Not Listed | Not Listed |
| 2 | 7732-18-5 | Water | Not Listed | Not Listed |

| Others

| Advance Solid | |
|--|--|
| Skin corrosion/irritation | Based on available data, the classification criteria are not met |
| Serious eye damage/irritation | Causes serious eye irritation |
| Skin sensitization | Based on available data, the classification criteria are not met |
| Respiratory sensitization | Based on available data, the classification criteria are not met |
| Reproductive toxicity | Based on available data, the classification criteria are not met |
| STOT-single exposure | Based on available data, the classification criteria are not met |
| STOT-repeated exposure | Based on available data, the classification criteria are not met |
| Aspiration hazard | Based on available data, the classification criteria are not met |
| Germ cell mutagenicity | Based on available data, the classification criteria are not met |
| Reproductive toxicity(additional) | Based on available data, the classification criteria are not met |

12 | Ecological information

| Acute aquatic toxicity

| | |
|-------------------------------|--------------------------|
| Acute aquatic toxicity | No information available |
|-------------------------------|--------------------------|

| Chronic aquatic toxicity

| | |
|---------------------------------|--------------------------|
| Chronic aquatic toxicity | No information available |
|---------------------------------|--------------------------|

Persistence and degradability

| Component | Cas No. | Persistence (water/soil) | Persistence (air) |
|-----------|-----------|--------------------------|-------------------|
| Water | 7732-18-5 | Low | Low |

Bioaccumulative potential

| Component | Cas No. | Bioaccumulative potential | comments |
|-----------|-----------|---------------------------|----------------------------|
| Water | 7732-18-5 | Low | Log K _{ow} =-1.38 |

Mobility in soil

| Component | Cas No. | Mobility in soil | Soil Organic Carbon-Water Partitioning Coefficient (K _{oc}) |
|-----------|-----------|------------------|---|
| Water | 7732-18-5 | Low | 14.3 |

Results of PBT and vPvB assessment

| Component | Cas No. | Results of PBT and vPvB assessment (according to (EC) No 1907/2006) |
|----------------------|-----------|---|
| Acrylic acid polymer | 9003-04-7 | not PBT/vPvB |
| Water | 7732-18-5 | not PBT/vPvB |

13 Disposal considerations

Disposal considerations

| | |
|--------------------------|--|
| Waste chemicals | Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal. |
| Contaminated packaging | Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible. |
| Disposal recommendations | Refer to section 13.1 and 13.2. |

14 Transport information

Label and Mark

| | |
|--------------------|----------------|
| Transporting Label | Not applicable |
|--------------------|----------------|

IMDG-CODE

| | |
|-----------|--|
| IMDG-CODE | NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS |
|-----------|--|

ICAO/IATA-DG

| | |
|--------------|--|
| ICAO/IATA-DG | NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS |
|--------------|--|

UN-ADR

| | |
|--------|--|
| UN-ADR | NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS |
|--------|--|

15 Regulatory information

International chemical inventory

| Component | EINECS | TSCA | DSL | IECSC | NZIoC | PICCS | KECI | AICS | ENCS |
|-----------|--------|------|-----|-------|-------|-------|------|------|------|
|-----------|--------|------|-----|-------|-------|-------|------|------|------|

| | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|
| Acrylic acid polymer | × | ✓ | ✓ | ✓ | ✓ | ✓ | × | ✓ | ✓ |
| Water | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | × |

【EINECS】 European Inventory of Existing Commercial Chemical Substances

【TSCA】 United States Toxic Substances Control Act Inventory

【DSL】 Canadian Domestic Substances List

【IECSC】 China Inventory of Existing Chemical Substances

【NZIoC】 New Zealand Inventory of Chemicals

【PICCS】 Philippines Inventory of Chemicals and Chemical Substances

【KECI】 Existing and Evaluated Chemical Substances

【AICS】 Australia Inventory of Chemical Substances

【ENCS】 Existing And New Chemical Substances

European chemical inventory

| Component | A | B | C | D | E | F | G |
|----------------------|---|---|---|---|---|---|---|
| Acrylic acid polymer | × | × | × | ✓ | × | × | × |
| Water | × | × | × | ✓ | × | × | × |

【A】 Candidate list of Substances of Very High Concern for authorization under EU REACH regulation

【B】 Substances requiring authorisation under EU REACH regulation

【C】 Substances restricted under EU REACH

【D】 Pre-registered substances under EU REACH

【E】 Registered substances under EU REACH

【F】 Substance Evaluation – CoRAP under EU REACH

【G】 List of priority substances under EU water policy (Directive 2455/2001/EC)

Note

"✓" Indicates that the substance included in the regulations

"×" That no data or included in the regulations

16 Others

Information on revision

| | |
|---------------------|------------|
| Creation Date | 2023/10/10 |
| Revision Date | 2023/10/10 |
| Reason for revision | - |

Reference

[1]IPCS: The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>.

[2]IARC, website: <http://www.iarc.fr/>.

[3] OECD: The Global Portal to Information on Chemical Substances, website:

http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en.

[4] CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.

[5]NLM: ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.

[6]EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.

[7]U.S. Department of Transportation: ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.

[8]Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

| Abbreviations and acronyms

CAS –Chemical Abstracts Service

PC-STEL- Short term exposure limit

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipment

LC₅₀ - Lethal Concentration 50%

NOEC -No Observed Effect Concentration

PBT - Persistent, Bioaccumulative, Toxic

BCF - Bioconcentration factor (BCF)

IMDG-International Maritime Dangerous Goods

UN-The United Nations

NFPA-National Fire Protection Association

CMR - Carcinogens, mutagens or substances toxic to reproduction

PC-TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

PNEC –Predicted No Effect Concentration

LD₅₀ - Lethal Dose 50%

EC₅₀ - Effective Concentration 50%

POW - Partition coefficient Octanol: Water

vPvB - very Persistent, very Bioaccumulative

ICAO/IATA-International Civil Aviation Organization/International Air Transportation Association

ACGIH-American Conference of Governmental Industrial Hygienists

OECD-Organization for Economic Co-operation and Development

| Disclaimer

This Safety Data Sheet (SDS) was prepared according to REACH Regulation the data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.