

SAFETY DATA SHEET

Revision date 2016-05-03

Revision number 1.01

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name	Daxad® 11
Product code	1148
Synonyms	Sulfonated Naphthalene Condensate, Sodium Salt

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

Recommended use [RU]	No information available
Uses advised against	None known

1.3 Details of the supplier of the safety data sheet

Supplier	GEO Specialty Chemicals, Inc. 701 Wissahickon Avenue Cedartown, GA 30125 +1-770-748-1200 Hours: Monday-Friday 9:00-5:00 EST (Eastern Standard Time)
Responsibility Statement	For further information, please contact safety-data-sheet-fp@geosc.com

1.4 Emergency telephone number

Emergency telephone	24 Hour Emergency Phone Number GEO Specialty Chemicals UK Ltd +44 (0)23 80891806
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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.2 Label elements

Signal word	Not classified
Hazard statements	None
<u>Precautionary statements</u>	
Prevention	None
Response	None

Storage	None
Disposal	None

2.3 Other hazards which do not result in classification

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Component	Common name	CAS-No	weight-%
Naphthalenesulfonic acid, formaldehyde polymer, sodium salt	Naphthalene sulfonic acid, polymer, containing formaldehyde, sodium salt	9084-06-4	78 - 98 %
Sodium Sulfate	Sulfuric acid disodium salt	7757-82-6	5 - 12 %
Water	Water	7732-18-5	2 - 10 %

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact	Remove contact lenses, if worn. Immediately flush with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire surface. Washing within one minute is essential to achieve maximum effectiveness. If eye irritation persists: Get medical advice/attention.
Skin contact	Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
Ingestion	Do NOT induce vomiting. If vomiting should occur spontaneously, keep airway clear. Never give anything by mouth to an unconscious person. Get medical attention.
Inhalation	Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects	No information available.
Aggravated Medical Conditions	Existing skin, eye and lung conditions.

4.3 Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Water mist Carbon dioxide (CO2) Foam Dry chemical
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Extinguishing media which must not be used for safety reasons No information available.

5.2 Special hazards arising from the substance or mixture

Special Hazard Use water spray to cool fire exposed surfaces.

5.3 Advice for firefighters

Special protective equipment for firefighters Full protective clothing and approved self-contained breathing apparatus required for firefighting personnel.

Firefighting measures Cool exposed containers with water spray after extinguishing fire.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Wear suitable protective clothing and gloves.

6.2 Environmental precautions

Environmental precautions Do not permit run-off to get into sewers or surface waterways.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up Stop leaks. Clear spills immediately. Shovel into labeled waste container for reuse or disposal. Do not use vacuum truck because of corrosive nature of product. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Provide adequate ventilation to spill area.

6.4 Reference to other sections

See Section 12 for additional Ecological Information

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling Hygroscopic
 Keep container closed when not in use
 Avoid contact with eyes, skin and clothing
 Wash thoroughly after handling
 Avoid generation of dust
 Avoid breathing dust. Use only in well-ventilated areas
 Use respiratory protection where dust may be generated.
 Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing.
 FOR INDUSTRIAL USE ONLY.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions Store in a cool, dry place to prevent product from caking

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit value

Component	Ministry of Labor (Republic of Korea, 3/2012)	ACGIH TLV
Naphthalenesulfonic acid, formaldehyde polymer, sodium salt 9084-06-4	NAV	NAV
Sodium Sulfate 7757-82-6	NAV	NAV

Legend NAV - Not available

8.2 Appropriate engineering controls

Environmental exposure controls No information available

8.3 Personal Protective Equipment

- Eye/face Protection Wear chemical splash goggles and face shield (when eye and face contact is possible due to splashing or spraying of material).
- Hand Protection Appropriate chemical resistant gloves should be worn.
- Respiratory protection Use approved NIOSH respiratory protection if TLV exceeded or over exposure is likely. Follow manufacturer's recommendations.
- Other personal protection data Eyewash fountains and safety showers must be easily accessible.
- Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance
 - Physical state solid
 - Color amber
- Odor slight mothball odor
- Odor threshold No information available
- pH 7 - 10.5 - solution (1 %)
- Melting / freezing point No information available
- Boiling point / boiling range No information available
- Flash point No information available
- Evaporation rate Not applicable
- Flammability (solid, gas) No information available
- Flammability Limit in Air
 - Upper flammability limit No information available
 - Lower flammability limit No information available
- Vapor pressure No information available

Vapor density	No information available
Specific gravity	No information available
Solubility(ies)	
Solubility (water)	miscible
Solubility in other solvents	No information available
Partition coefficient: n-octanol/water	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity	
Kinematic viscosity	Not applicable
Dynamic viscosity	Not applicable
Molecular weight	No information available
Density	No information available

10. STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity No information available.

10.2 Chemical stability

Chemical stability Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization Not anticipated under normal or recommended handling and storage conditions.

10.4 Conditions to avoid

Conditions to avoid None.

10.5 Incompatible materials

Materials to avoid Oxidizing agents.

10.6 Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Sulphur oxides.

11. TOXICOLOGICAL INFORMATION

11.1 Information on likely routes of exposure

Acute health hazard

Inhalation Inhalation of dust may cause irritation of the respiratory system.

Eye contact May cause slight irritation.

Skin contact Mild skin irritation.

Ingestion May be harmful if swallowed.

11.2 Health hazards

Acute toxicity - Product Information

Oral LD50 3,250 - 4,300 mg/kg (rat)

Dermal LD50 > 16,000 mg/kg (rabbits)

Inhalation LC50 No information available

Acute toxicity - Component Information

Component	Oral LD50	Dermal LD50	Inhalation LC50
Naphthalenesulfonic acid, formaldehyde polymer, sodium salt 9084-06-4	= 3800 mg/kg (Rat)	--	--
Sodium Sulfate 7757-82-6	> 10000 mg/kg (Rat)	--	--

Skin corrosion/irritation Mild skin irritation

Serious eye damage/eye irritation Mild eye irritation

Sensitization No information available

Germ cell mutagenicity No information available

Carcinogenicity No information available

Reproductive toxicity No information available

Specific target organ toxicity -
Single exposure No information available

Specific target organ toxicity -
Repeated exposure No information available

Aspiration hazard No information available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Acute aquatic toxicity - Product Information

Fish No information available

Crustacea No information available

Algae/aquatic plants No information available

Acute aquatic toxicity - Component Information

Component	Algae/aquatic plants	Fish	Toxicity to daphnia and other aquatic invertebrates
Sodium Sulfate 7757-82-6	--	LC50 (96 h) 13500 - 14500 mg/L (Pimephales promelas) LC50 (96 h) = 13500 mg/L (Lepomis macrochirus) LC50 (96 h static) 3040 - 4380	EC50 (96 h) = 630 mg/L (Daphnia magna) EC50 (48 h) = 2564 mg/L (Daphnia magna)

		mg/L (Lepomis macrochirus) LC50 (96 h static) > 6800 mg/L (Pimephales promelas)	
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12.2 Persistence and degradability

Persistence and degradability	Biodegradation under aerobic static laboratory conditions is low (BOD20 or BOD28/ThOD between 2.5 and 10%). 28-Day biochemical oxygen demand (BOD28) is 9.7% of ThOD. Mean biodegradation reached in the Modified SCAS Test (OECD Test No. 302 A): 3.91%.
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12.3 Bioaccumulative potential

Bioaccumulative potential	No information available
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12.4 Mobility in soil

Mobility	No information available
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12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment	No information available
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12.6 Other adverse effects

Other information	No other ecological studies have been carried out on this product.
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13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal of wastes	Dispose of product in an approved chemical waste landfill or incinerate in accordance with applicable Federal, state and local regulations.
Contaminated packaging	Since empty containers retain product residue, follow label warnings even after container is emptied

14. TRANSPORT INFORMATION

US DOT Not regulated

- 14.1. UN number
- 14.2. UN proper shipping name
- 14.3. Transport hazard class(es)
- 14.4. Packing group
- 14.5. Environmental hazards

Land transport (ADR/RID) Not regulated

- 14.1. UN number
- 14.2. UN proper shipping name
- 14.3. Transport hazard class(es)
- 14.4. Packing group
- 14.5. Environmental hazards

Inland waterway transport (ADN) Not regulated

- 14.1. UN number
- 14.2. UN proper shipping name
- 14.3. Transport hazard class(es)
- 14.4. Packing group
- 14.5. Environmental hazards

Air transport (ICAO-TI / IATA-DGR) Not regulated

- 14.1. UN number
- 14.2. UN proper shipping name
- 14.3. Transport hazard class(es)
- 14.4. Packing group
- 14.5. Environmental hazards

Sea transport (IMDG) Not regulated

- 14.1. UN number
- 14.2. UN proper shipping name
- 14.3. Transport hazard class(es)
- 14.4. Packing group
- 14.5. Environmental hazards

14.6 Special precautions for user

No information available

15. REGULATORY INFORMATION

15.1 Industrial Safety and Health Law

ISHA Article 37 None of the components are listed.

ISHA Article 38 None of the components are listed.

Component	ISHA - Substances to be controlled - Acids and bases	ISHA - Substances to be controlled - Metals	ISHA - Substances to be controlled - Organic Substances
Naphthalenesulfonic acid, formaldehyde polymer, sodium salt	Not applicable	Not applicable	Not applicable
Sodium Sulfate	Not applicable	Not applicable	Not applicable

Component	ISHA - Harmful factors subject to special health check-up - Acids and bases	ISHA - Harmful factors subject to special health check-up - Metals	ISHA - Harmful factors subject to special health check-up - Organic Substances
Naphthalenesulfonic acid, formaldehyde polymer, sodium salt	Not applicable	Not applicable	Not applicable
Sodium Sulfate	Not applicable	Not applicable	Not applicable

Component	ISHA - Harmful agents subject to Work Environment Measuring - Acids and bases	ISHA - Harmful agents subject to Work Environment Measuring - Metals	ISHA - Harmful agents subject to Work Environment Measuring - Organic Substances
Naphthalenesulfonic acid, formaldehyde polymer, sodium salt	Not applicable	Not applicable	Not applicable
Sodium Sulfate	Not applicable	Not applicable	Not applicable

Occupational exposure limits See section 8 for more information

15.2 Toxic Chemicals Control Law

Component	TCCA - Toxic Chemicals	TCCA - Observational Chemicals	TCCA Article 32 (Banned)	TCCA Article 32 (Restricted)	Accident Precaution Chemicals
Naphthalenesulfonic acid, formaldehyde polymer, sodium salt	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Sodium Sulfate	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

15.3 Dangerous Substances Safety Management Act

Not classified

15.4 Wastes Management

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

15.5 Other information

International Inventories

Australia (AICS)

All ingredients are on the inventory or exempt from listing

Canada (DSL)

All ingredients are on the inventory or exempt from listing

Canada (NDSL)

None of the ingredients are on the inventory.

China (IECSC)

All ingredients are on the inventory or exempt from listing

EINECS (European Inventory of Existing Chemical Substances)

All ingredients are on the inventory or exempt from listing

ELINCS (European List of Notified Chemical Substances)

None of the ingredients are on the inventory.

ENCS (Japan)

All ingredients are on the inventory or exempt from listing

South Korea (KECL)

All ingredients are on the inventory or exempt from listing

Philippines (PICCS)

All ingredients are on the inventory or exempt from listing

TSCA (United States)

All ingredients are on the inventory or exempt from listing

Legend

AICS - Australian Inventory of Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

IECSC - China Inventory of Existing Chemical Substances

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

16. OTHER INFORMATION

Product code 1148

Revision date 2016-05-03

Key or legend to abbreviations and acronyms used in the safety data sheet

NAV - Not available

Additional information

None

Disclaimer

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