NAXAN® DIA

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	Mixture
Trade Name	NAXAN® DIA
CAS No.	Mixture

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

Identified Use(s)	Demulsifier / Emulsion breaker
Uses Advised Against	None

Details of the supplier of the safety data sheet

Company Identification	Nease Co. LLC 10740 Paddys Run Road Harrison, OH 45030
Telephone	(513) 738-1255
Telephone (Product Information)	(888) 762-7373
Fax	(513) 587-2828
E-Mail (competent person)	techservice@neaseco.com

Emergency telephone number

Emergency Phone No.	(513) 738-1255 CHEMTREC 24 hr. (800) 424-9300

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)	Skin Corr. 1C; Eye Dam. 1; Met. Corr. 1

Label elements

Hazard Symbol

Signal Word(s)	**DANGER**
Hazard Statement(s)	Causes severe skin burns and eye damage. May be corrosive to metals.
Precautionary Statement(s)	Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If irritation (redness, rash, blistering) develops, get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.
Other hazards	Toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Not classified as PBT or vPvB.
Additional Information	None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	%W/W	CAS No.	Hazard Statement(s)
Diisopropylnaphthalenesulfonic acid	45 - 55%	28757-00-8	Causes severe skin burns and eye damage. Harmful to aquatic life.
Sulfuric acid	2 - 5%	7664-93-9	Causes severe skin burns and eye damage.
Diisopropylnaphthalene	45 - 50%	38640-62-9	May be fatal if swallowed and enters airways. Toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
Water	1 - 4%	7732-18-5	None

Additional Information - None

SECTION 4: FIRST AID MEASURES

Description of first aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is labored, administer oxygen. If symptoms occur obtain medical attention.
Skin Contact	Wash affected skin with plenty of water. Remove contaminated clothing immediately. If irritation (redness, rash, blistering) develops, get medical attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
Ingestion	Rinse mouth. Do not induce vomiting. Seek medical treatment.
Most important symptoms and effects, both acute and delayed	None
Indication of any immediate medical attention and special treatment needed	None

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media	Extinguish preferably with foam, dry chemical or waterspray.
-Unsuitable Extinguishing Media	Beware dangerous reaction with water if containers ruptured.
Special hazards arising from the substance or mixture	Susceptible to exothermic reaction with water, alcohols and alkalis.
Advice for fire-fighters	Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Water spray should be used to cool containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Put on protective equipment before entering danger area.
Environmental precautions	Do not allow to enter drains, sewers or watercourses.
Methods and material for containment and cleaning up	Contain spillages with sand, earth or any suitable adsorbent material. Transfer to a container for disposal or recovery. Cautiously neutralize remainder. Carefully collect remainder.
Reference to other sections	None
Additional Information	None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling Do not get in eyes, on skin, or on clothing.

Conditions for safe storage, including any incompatibilities

-Storage temperature	Store at room temperature.
-Incompatible materials	Attacks many materials and clothing. Keep away from oxidizing agents. Keep container tightly closed and dry. Susceptible to exothermic reaction with water, alcohols and alkalis.

Specific end use(s) Demulsifier / Emulsion breaker

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)		STEL (ppm)		Note:
		OSHA (PEL)	ACGIH (TLV)	OSHA (PEL)	ACGIH (TLV)	
Sulfuric acid	7664-93-9	1 mg/m³	0.2 mg/m³ (T)	----	----	(T)Thoracic fraction

Recommended monitoring method NIOSH 5043

Exposure controls

Appropriate engineering controls Local exhaust required.

Personal protection equipment

Eye/face protection

The following to be used as necessary: Goggles giving complete protection to eyes. Full face shield.

Skin protection (Hand protection/ Other)

The following to be used as necessary: Gloves (Neoprene, Butyl rubber, or Natural rubber). Chemical protection suit. Wear safety or chemical resistant shoes or boots. Check with protective equipment manufacturer's data.

Respiratory protection

No personal respiratory protective equipment normally required.

Thermal hazards Use gloves with insulation for thermal protection, when needed.

Environmental Exposure Controls Do not allow to enter drains, sewers or watercourses.None anticipated.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Color.	Brown
Odor	Slight hydrocarbon
Odor Threshold (ppm)	Not available.
pH (Value)	<2
Melting Point (°C) / Freezing Point (°C)	Not available.
Boiling point/boiling range (°C):	Not available.
Flash Point (°C)	>121 (250 °F)

Evaporation Rate (butyl acetate=1):	<1
Flammability (solid, gas)	Not applicable.
Explosive Limit Ranges	Not available.
Vapor pressure (Pascal)	Not available.
Vapor Density (Air=1)	>1
Density (g/ml)	1.16
Solubility (Water)	Soluble
Solubility (Other)	Not available.
Partition Coefficient (n-Octanol/water)	Not available.
Auto Ignition Point (°C)	Not available.
Decomposition Temperature (°C)	Not available.
Kinematic Viscosity (cSt) @ 40°C	Not available.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

Other information Not available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity Stable under normal conditions.

Chemical stability Stable.

Possibility of hazardous reactions None anticipated.

Conditions to avoid Incompatible materials.

Incompatible materials Reacts with strong alkalis. Avoid contact with bleach or other hypochlorites. Generates heat of solution when dissolved in water and alcohols.

Hazardous decomposition product(s) Carbon monoxide, Carbon dioxide, Sulfur oxides, Acrid smoke

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation**,** Skin Contact**,** Eye Contact

Substances in preparations / mixtures

Diisopropylnaphthalenesulfonic acid (CAS No. 28757-00-8)) - By analogy with similar materials:

Acute toxicity Oral: LD50 = 1400 - 6000 mg/kg-bw

Irritation/Corrosivity Corrosive (Skin and Eyes)

Sensitization It is not a skin sensitizer.

Repeated dose toxicity NOAEL: > 1835 mg/kg bw/day (28 days, oral, rat)

Carcinogenicity It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Mutagenicity There is no evidence of mutagenic potential.

Toxicity for reproduction No effects to the reproductive system.

Sulfuric acid (CAS No. 7664-93-9)

Acute toxicity Oral: LD50 = 2140 mg/kg-bw (rat)
Dermal: No data
Inhalation: LC50 = 0.37-0.42 mg/l (rat)

Irritation/Corrosivity Corrosive (Skin and Eyes)

Sensitization Skin sensitisation has been reported in humans.

Repeated dose toxicity No data.

Carcinogenicity NOAEL (rat): ≥ 240 mg/kg (Fischer 344)

NTP	IARC	ACGIH	OSHA	NIOSH
Listed	Group 1	Group 2A	No.	No.

Mutagenicity There is no evidence of mutagenic potential.

Toxicity for reproduction NOAEL: 20 mg/m³ (rabbit) (New Zealand White)
NOEL: 20 mg/m³ (rabbit) (New Zealand White)

Diisopropylnaphthalene (CAS No. 38640-62-9)

Acute toxicity Oral: LD50 = 4130 mg/kg-bw (rat)
Dermal: LD50 > 450 mg/kg-bw (rat)
Inhalation: LC50 = 5.64 mg/l (rat)

Irritation/Corrosivity Not Irritating to eyes and skin.
Sensitization Will not occur
Repeated dose toxicity NOAEL (rat): = 170 mg/kg bw/day (rat)

Carcinogenicity It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Mutagenicity There is no evidence of mutagenic potential.

Toxicity for reproduction Not to be expected. LOAEC: maternal toxicity: 250 mg/kg (rat); NOEL: embryotoxicity, fetotoxicity and teratogenicity: 625 mg/kg (rat)

SECTION 12: ECOLOGICAL INFORMATION

Diisopropylnaphthalenesulfonic acid (CAS No. 28757-00-8) - (By analogy with similar materials)

Short term LC50 (96 hour): 5300 mg/l (*Leuciscus idus*)
EC50 (48 hour): 34 mg/l (*Daphnia magna,* mobility*)*
EC50 (96 hour): 74.4 mg/l (*Scenedesmus subspicatus*)

Long Term Not available

Persistence and degradability Readily biodegradable.
Bioaccumulative potential Not available.
Mobility in soil The substance has high mobility in soil.
Results of PBT and vPvB assessment Not classified as PBT or vPvB.

Sulfuric acid (CAS No. 7664-93-9)

Short term LC50 (96 hour): 42.0 mg/l (*Gambusia affinis*)
EC50(24 hour): 29.0 mg/l (*Daphnia magna*)
EC50(48 hour): 29 mg/l (*Pandalus montagui*)

Long Term Not available

Persistence and degradability Not readily biodegradable.
Bioaccumulative potential The substance has no potential for bioaccumulation.
Mobility in soil The substance has high mobility in soil.
Results of PBT and vPvB assessment Not classified as PBT or vPvB.
Other adverse effects None known.

Diisopropylnaphthalene (CAS No. 38640-62-9)

Short term LC50 (96 hour): >0.5 mg/l (96 hour) (*Leuciscus idus*) - No toxic effects occur within the range of solubility.
EL50 (48 hour): 1.7 mg/l *(Daphnia magna)*
NOEC (72 hour): 0.15 mg/l (*Scenedesmus subspicatus*)

Long Term NOEC (21 days) 0.013 mg/l (*Daphnia magna*)
LOEC (21 days) 0.025 mg/l (*Daphnia magna*)

Persistence and degradability Not readily biodegradable.
Bioaccumulative potential The product has low potential for bioaccumulation.
Mobility in soil The substance is predicted to have low mobility in soil.
Results of PBT and vPvB assessment Not classified as PBT or vPvB.
Other adverse effects None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods — Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

Additional Information — None known.

SECTION 14: TRANSPORT INFORMATION

	Land transport (U.S. DOT)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number	2586	2586	2586
Proper Shipping Name	Aryl sulfonic acids, liquid with less than 5 percent free sulfuric acid (Diisopropylnaphthalenesulfonic acid)	Aryl sulphonic acids, liquid with less than 5 percent free sulfuric acid (Diisopropylnaphthalenesulphonic acid)	Aryl sulphonic acids, liquid with less than 5 percent free sulfuric acid (Diisopropylnaphthalenesulphonic acid)
Transport hazard class(es)	8	8	8
Packing group	III	III	III
Hazard label(s)	Corrosive	Corrosive	Corrosive
Environmental hazards	No	No	No
Special precautions for user	None known.	None known.	None known.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not established.

SECTION 15: REGULATORY INFORMATION

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

TSCA (Toxic Substance Control Act) - Inventory Status**:** All components listed or polymer exempt.
Canada Domestic Substance List (NDSL/DSL)

- NDSL: Diisopropylnaphthalenesulfonic acid
- DSL: Sulfuric acid; Diisopropylnaphthalene

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
Sulfuric acid	7664-93-9	>65%	1,000

SARA 311/312 - Hazard Categories:

☐ Fire ☐ Sudden Release ☐ Reactivity ☒ Immediate (acute) ☐ Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
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SARA 302 - Extremely Hazardous Substances (40 CFR 355):

Chemical Name	CAS No.	Typical %wt.
Sulfuric acid	7664-93-9	< 2%

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

Date of preparation: October 2, 2014

Additional Inform ation:

HMIS (Hazardous Material Information System)

NFPA (National Fire Protection Association)

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