NAXAN® DI-AN

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	Mixture
Trade name	NAXAN® DI-AN
CAS No.	Mixture

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

Identified use(s)	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) — Flam. Liq. 3; Eye Dam. 1; STOT SE 3; Asp. Tox. 1

Label elements

Hazard Symbol

Signal word(s): **DANGER**

Hazard statement(s):

Flammable liquid and vapour.
Causes serious eye damage.
Suspected of damaging fertility or the unborn child.
May cause drowsiness and dizziness.
May be fatal if swallowed and enters airways.
May be corrosive to metals.

Precautionary statement(s):

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Take precautionary measures against static discharge.
Obtain special instructions before use.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash hands and exposed skin after use.

Avoid breathing dust/fume/gas/mist/vapours/spray.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Seek medical treatment.

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 medical advice/attention.

Other hazards Toxic to aquatic life. Toxic to aquatic life with long lasting effects. Not classified as PBT or vPvB.

Additional Information None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	%W/W	CAS No.	Hazard statement(s)
Naphthalenesulfonic acid, bis(1-methylethyl)-, ammonium salt	20-30%	68425-60-5	Causes eye irritation.
Naphthalenesulfonic acid, bis(1-methylethyl)-, compd. w/ cyclohexylamine	14-20%	68425-61-6	Suspected of damaging fertility or the unborn child. Causes serious eye damage. Harmful in contact with skin and if swallowed. Flammable liquid and vapour. Harmful to aquatic life.
Light aromatic naphtha	50-60%	64742-95-6	Flammable liquid and vapour. Suspected of damaging fertility or the unborn child. Causes skin irritation. May be fatal if swallowed and enters airways. May cause drowsiness and dizziness. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Ammonium Sulfate	<2	7783-20-2	Not classified as dangerous for supply/use.

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 with waterspray, dry chemical, sand or carbon dioxide or foam.
-Unsuitable Extinguishing Media	None anticipated.
Special hazards arising from the substance or mixture	None anticipated.
Advice for fire-fighters	Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

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	Cover spills with inert absorbent material. Sweep spilled substances into containers. Transfer to a container for disposal.
Reference to other sections	None
Additional Information	None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Ground/bond container and receiving equipment.Do not get in eyes. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands and exposed skin after use.

Conditions for safe storage, including any incompatibilities

-Storage Temperature	Do not allow material to freeze. Store at temperatures between 4.4°C (40°F) and 48 °C (120°F). Keep away from oxidising agents. Keep container tightly closed and dry.
-Incompatible materials	
Specific end use(s)	Emulsion Breaker

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
C9-C15 Aromatics	-----	-----	100 mg/m3	-----	-----	-----
1,2,4-trimethylbenzene	95-63-6	-----	25	-----	-----	-----
xylenes	1330-20-7	100 ppm	100 ppm		150	-----
Cumene	98-82-8	50 ppm	50 ppm	-----	-----	-----
Cyclohexylamine	108-91-8	-----	10	-----	-----	-----

Recommended monitoring method OSHA 07; NIOSH 1501; NIOSH 2010/2007 (modified)

Exposure controls

Appropriate engineering controls Not normally required.

Personal protection equipment

Eye/face protection 	Wear protective eyewear (goggles, face shield, or safety glasses).
Skin protection (Hand protection/ Other) 	The following to be used as necessary: Gloves (Butyl rubber, Neoprene or Natural rubber). Check with protective equipment manufacturer's data.
Respiratory protection 	In case of insufficient ventilation, wear suitable respiratory equipment. Air-purifying respirator with organic vapor cartridge may be sufficient. Check with protective equipment manufacturer's data.
Thermal hazards	Use gloves with insulation for thermal protection, when needed.
Environmental Exposure Controls	Do not allow to enter drains, sewers or watercourses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Amber.
Odour	Mild hydrocarbon
Odour Threshold (ppm)	Not available.
pH (Value)	7.0 – 9.0
Melting Point (°C) / Freezing Point (°C)	Not available.
Boiling point/boiling range (°C):	159-170 (light aromatic Naphtha)
Flash Point (°C)	42 (light aromatic naphtha)
Evaporation rate (butyl acetate=1)	<1
Flammability (solid, gas)	Not applicable.
Explosive limit ranges	LEL: 1.9 % UEL: 12.6%
Vapour Pressure (Pascal)	586.6 (4.4 mmHg) @ 20 °C
Vapour Density (Air=1)	4.2
Density (g/ml)	1.1 – 1.2
Solubility (Water)	Slightly soluble
Solubility (Other)	Not available.
Partition Coefficient (n-Octanol/water)	Not available.
Auto Ignition Temperature (°C)	471
Decomposition Temperature (°C)	Not available.
Kinematic Viscosity (cSt) @ 40°C	<1 (Low Boiling Point Naphthas)
Explosive properties	Not available
Oxidising properties	Not oxidising.
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 oxidizers.
Hazardous Decomposition Product(s)	Carbon monoxide, Carbon dioxide, Sulphur oxides

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Naphthalenesulfonic acid, bis(1-methylethyl)-, ammonium salt (CAS No. 68425-60-5) - By analogy with similar materials:

Acute toxicity	Oral: LD50 > 5250 mg/kg Dermal: LD50 > 2000 mg/kg
Irritation/Corrosivity	Causes eye irritation.
Sensitization	It is not a skin sensitiser.
Repeated dose toxicity	NOAEL: > 763 active ingredient/kg bw/day (in diet for 90 days, in diet, 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 information available

Naphthalenesulfonic acid, bis(1-methylethyl)-, compd. w/ cyclohexylamine (CAS No. 68425-60-5) - By analogy with similar materials:

Acute toxicity (cyclohexylamine CAS No.108-91-8)	Oral: LD50 > 432 mg/kg Dermal: LD50 > 275 mg/kg
Irritation/Corrosivity (cyclohexylamine CAS No.108-91-8)	Causes serious eye damage.
Sensitization	No data.
Repeated dose toxicity	NOAEL: > 763 active ingredient/kg bw/day (in diet for 90 days, in diet, 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 (cyclohexylamine CAS No.108-91-8)	Suspected of damaging fertility or the unborn child.

Light aromatic naphtha (CAS No. 64742-95-6)

Acute toxicity	Oral: LD50 > 5000 mg/kg Dermal: LD50 > 2000 mg/kg Inhalation: LD50 = 5610 mg/m3
Irritation/Corrosivity	Causes skin irritation.
Sensitization	It is not a skin sensitiser.
Repeated dose toxicity	Oral: NOEL< 500 mg/kg (rat, 28 day) Dermal: NOEL > 2000 mg/kg (rabbit, 28 day) Inhalation: NOAEC 1402 mg/m3 (rat and mice)
Carcinogenicity	No evidence of carcinogenicity.

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

Mutagenicity	There is no evidence of mutagenic potential.
Toxicity for reproduction	NOAEL > 20000 mg/m3

SECTION 12: ECOLOGICAL INFORMATION

Toxicity - Substances in preparations / mixture

Naphthalenesulfonic acid, bis(1-methylethyl)-, ammonium salt (CAS No. 68425-60-5) - Predicted toxicity:

Short term	LC50 (96 hour) = 12-295 mg/l (Fish) LC50 (48 hour) = 26 – 44 mg/l (Daphnia magna)
Long Term	Not available.

Persistence and degradability	The product has low potential to be biodegradable
Bioaccumulative potential	Low
Mobility in soil	Not available.
Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
Other adverse effects	None known.

Naphthalenesulfonic acid, bis(1-methylethyl)-, compd. w/ cyclohexylamine (CAS No. 68425-61-6)

Short term	LC50 (96 hour) = 33 mg/l (*Oryzias latipes*) EC50 (48 hour) = 63.3 mg/l (*Daphnia magna*) EC50 (72 hour) = 29.3 mg/l (Pseudokirchnerella subcapitata)
Long Term	Not available.
Persistence and degradability	Readily biodegradable.
Bioaccumulative potential	The substance has low potential for bioaccumulation.
Mobility in soil	The product has low mobility in soil.
Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
Other adverse effects	None known.

Light aromatic naphtha (CAS No. 64742-95-6)

Short term	LC50 (96 hour) = 8.2 mg/l (*Pimephales promelas*) EL50 (48 hour) = 4.5 mg/l (*Daphnia magna*) EC50 (72 hour) = 3.1 mg/l (Pseudokirchnerella subcapitata)
Long Term	NOELR (21 day) = 2.6 mg/l (*Daphnia magna*)
Persistence and degradability	Readily biodegradable.
Bioaccumulative potential	The product has potential for bioaccumulation.
Mobility in soil	The product has moderate mobility in sediment.
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	NA 1993	UN 1993	UN 1993
Proper Shipping Name	RQ, Combustible liquid, n.o.s. (Petroleum Distillate, Xylenes, Cumene)	Petroleum Distillates, n.o.s.	Petroleum Distillates, n.o.s.
Transport hazard class(es)	Comb. Liq.	3	3
Packing group	III	III	III
Hazard label(s)	Combustible Liquid	Flammable Liquid	Flammable Liquid
Environmental hazards	Yes	No	No
Special precautions for user	None assigned	None assigned	None assigned

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

***Reclassified as a "combustible liquid" according to 49 CFR 173.120 (b)(2). Not regulated for ground shipments in the U.S. in non-bulk packaging (<119 gallons).

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) - Listed DSL

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

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
Cumene	98-82-8	< 1	5000
Xylene	1330-20-7	< 1.5	100

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.
Cumene	98-82-8	< 1
Xylene	1330-20-7	< 1.5
1,2,4-trimethyl benzene	95-63-6	< 20

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.
Cyclohexylamine	108-91-8	< 20

SECTION 16: OTHER INFORMATION

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

Date of preparation: November 23, 2014

Additional Information:

HMIS (Hazardous Material Information System)

NFPA (National Fire Protection Association)

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