



SAFETY DATA SHEET DEQUEST 2060S

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

1.1. Product identifier

Product name DEQUEST 2060S

Product number 11101

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

Identified uses Chemical Intermediate Scale Inhibition Cleaning agent. Disinfectant. Cosmetics Personal Care Metal surface treatment Surface coating Paint. Paint Remover Bleaching Agent Additive for Agrochemicals Ceramics Glass Industry/Professional

1.3. Details of the supplier of the safety data sheet

Supplier Univar Solutions UK Ltd
Aquarius House
6 Mid Point Business Park
Bradford
BD3 7AY
+44 1274 267300
+44 1274 267306
SDS.EMEA@univarsolutions.com

1.4. Emergency telephone number

Emergency telephone SGS - +32 (0)3 575 55 55 (24h)

Sds No. 11101

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Met. Corr. 1 - H290

Health hazards Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Danger

Hazard statements
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

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Precautionary statements

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
 Rinse skin with water or shower.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P501 Dispose of contents/ container in accordance with local regulations.

Contains

DIETHYLENETRIAMINE PENTA (METHYLENE PHOSPHONIC ACID), HYDROCHLORIC ACID ...%, PHOSPHONIC ACID

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

DIETHYLENETRIAMINE PENTA (METHYLENE PHOSPHONIC ACID)			45 - 48%
CAS number: 15827-60-8	EC number: 239-931-4	REACH registration number: 01-2119510387-42-XXXX	
Classification Met. Corr. 1 - H290 Skin Irrit. 2 - H315 Eye Dam. 1 - H318			
HYDROCHLORIC ACID ...%			15 - 17%
CAS number: 7647-01-0	EC number: 231-595-7	REACH registration number: 01-2119484862-27-XXXX	
Classification Met. Corr. 1 - H290 Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335			
PHOSPHONIC ACID			3 -4%
CAS number: 13598-36-2	EC number: 237-066-7	REACH registration number: 01-2119488030-46-XXXX	
Classification Met. Corr. 1 - H290 Acute Tox. 4 - H302 Skin Corr. 1A - H314 Eye Dam. 1 - H318			

The full text for all hazard statements is displayed in Section 16.

Composition comments

The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

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4.1. Description of first aid measures

Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If it is suspected that airborne contaminants are still present around the affected person, first aid personnel should wear an appropriate respirator or self-contained breathing apparatus. If breathing stops, provide artificial respiration. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation. Place unconscious person on their side in the recovery position and ensure breathing can take place. Get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. Development of symptoms may be delayed for 24 to 48 hours. Keep affected person under observation.
Ingestion	Rinse mouth thoroughly with water. Remove any dentures. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Give plenty of water to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated by a physician. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
Skin contact	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Continue to rinse for at least 10 minutes. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. Chemical burns must be treated by a physician. Get medical attention immediately. Wash clothing and clean shoes thoroughly before reuse.
Eye contact	Get medical attention immediately. Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes. Chemical burns must be treated by a physician.
Protection of first aiders	No action shall be taken without appropriate training or involving any personal risk. If it is suspected that airborne contaminants are still present around the affected person, first aid personnel should wear an appropriate respirator or self-contained breathing apparatus. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	May cause respiratory irritation. Delayed, often serious, breathing problems. Overexposure may cause the following adverse effects: Coughing.
Ingestion	The product irritates mucous membranes and may cause abdominal discomfort if swallowed.
Skin contact	Causes severe burns. Overexposure may cause the following adverse effects: Irritation. Redness.
Eye contact	Causes serious eye damage. Causes severe burns. May cause permanent damage if eye is not immediately irrigated. Overexposure may cause the following adverse effects: Pain. Profuse watering of the eyes. Redness.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically. Development of symptoms may be delayed for 24 to 48 hours.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

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Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up. When heated and in case of fire, toxic vapours/gases may be formed.

Hazardous combustion products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Phosphine (PH₃). Oxides of the following substances: Carbon. Nitrogen. Phosphorus.

5.3. Advice for firefighters

Protective actions during firefighting Evacuate area. No specific requirements are anticipated under normal conditions of use.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. No action shall be taken without appropriate training or involving any personal risk. Evacuate area. Keep unnecessary and unprotected personnel away from the spillage. Do not touch or walk into spilled material. If ventilation is inadequate, suitable respiratory protection must be worn.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Stop leak if safe to do so. Move containers from spillage area. Absorb spillage with non-combustible, absorbent material. Neutralise spilled material with crushed limestone, slaked lime (calcium hydroxide), soda ash (sodium carbonate) or sodium bicarbonate. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Container must be kept tightly closed when not in use. Avoid contact with alkalis. Product residues retained in emptied containers can be hazardous. Do not reuse empty containers.

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Advice on general occupational hygiene

Do not eat, drink or smoke when using this product. Wash after use and before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas. Good personal hygiene procedures should be implemented.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Avoid exposure to high temperatures or direct sunlight. Store away from incompatible materials (see Section 10). Keep away from food and drink. Store in corrosive resistant container with a resistant inner liner. Store away from the following materials: Alkalies. Strong oxidising agents. Metals Container must be kept tightly closed when not in use. Keep containers upright. Only store in correctly labelled containers. Use appropriate containment to avoid environmental contamination. Store at temperatures above -10°C.

Storage class

Corrosive storage.

7.3. Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

HYDROCHLORIC ACID ...%

Long-term exposure limit (8-hour TWA): WEL 1 ppm 2 mg/m³ gas and aerosol mists

Short-term exposure limit (15-minute): WEL 5 ppm 8 mg/m³ gas and aerosol mists

WEL = Workplace Exposure Limit.

Ingredient comments

Observe any occupational exposure limits for the product or ingredients.

DIETHYLENETRIAMINE PENTA (METHYLENE PHOSPHONIC ACID) (CAS: 15827-60-8)

DNEL

Workers - Oral; systemic effects: 3.9 mg/kg/day
Consumer - Oral; Short term systemic effects: 1.9 mg/kg/day
Consumer - Oral; Long term systemic effects: 1.9 mg/kg/day

PNEC

- Sediment (Freshwater); 108 mg/kg/day
- Sediment (Marinewater); 10.8 mg/kg/day
- STP; 20 mg/l
- marine water; 0.052 mg/l
- Fresh water; 0.52 mg/l
- Soil; 174 mg/kg/day

HYDROCHLORIC ACID ...% (CAS: 7647-01-0)

PNEC

- Fresh water; 36 µg/l
- marine water; 36 µg/l
- STP; 36 µg/l

PHOSPHONIC ACID (CAS: 13598-36-2)

DNEL

General population - Oral; Long term systemic effects: 0.42 mg/kg/day
General population - Dermal; Long term systemic effects: 0.42 mg/kg/day
General population - Inhalation; Long term systemic effects: 0.72 mg/m³
Workers - Dermal; Long term systemic effects: 0.83 mg/kg/day
Workers - Inhalation; Long term systemic effects: 2.94 mg/m³

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PNEC

Fresh water; 0.1 mg/l
marine water; 0.01 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation. As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacture, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygiene measures

Do not eat, drink or smoke when using this product. Wash after use and before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas. Eye wash facilities and emergency shower must be available when handling this product.

Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. If ventilation is inadequate, suitable respiratory protection must be worn. High-efficiency particulate filter. EN 136/140/141/145/143/149

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Dark. Amber.
Odour	Pungent.
Odour threshold	No information available.
pH	pH (diluted solution): < 2.0 (10 g/l)
Melting point	-25°C
Pour Point	No information available.

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Freezing Point	No information available.
Initial boiling point and range	110°C @ 760 mm Hg
Flash point	No information available.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Other flammability	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	1.42 @ 20°C
Bulk density	No information available.
Solubility(ies)	Miscible with water.
Partition coefficient	log Pow: -3.4
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	No information available.
Explosive under the influence of a flame	No information available.
Oxidising properties	No information available.

9.2. Other information

Other information	No information available.
Refractive index	No information available.
Particle size	No information available.
Molecular weight	No information available.
Volatility	No information available.
Saturation concentration	No information available.
Critical temperature	No information available.
Volatile organic compound	No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No test data specifically related to reactivity available for this product or its ingredients.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Under normal conditions of storage and use, no hazardous reactions will occur.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid Alkalies. Strong oxidising agents. Metals

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Phosphine (PH₃). Oxides of the following substances: Carbon. Nitrogen. Phosphorus.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 12,500.0

Skin corrosion/irritation

Skin corrosion/irritation Causes severe burns.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage. Causes severe burns.

Respiratory sensitisation

Respiratory sensitisation Conclusive data but not sufficient for classification.

Skin sensitisation

Skin sensitisation Conclusive data but not sufficient for classification.

Germ cell mutagenicity

Genotoxicity - in vitro Conclusive data but not sufficient for classification.

Carcinogenicity

Carcinogenicity Conclusive data but not sufficient for classification.

Reproductive toxicity

Reproductive toxicity - fertility Conclusive data but not sufficient for classification.

Specific target organ toxicity - single exposure

STOT - single exposure May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard Not applicable.

Inhalation

May cause respiratory irritation. Delayed, often serious, breathing problems. Overexposure may cause the following adverse effects: Coughing.

Ingestion

May cause discomfort if swallowed.

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Skin contact	Causes severe burns. Overexposure may cause the following adverse effects: Irritation. Redness.
Eye contact	Causes serious eye damage. Causes severe burns. May cause permanent damage if eye is not immediately irrigated. Overexposure may cause the following adverse effects: Pain. Profuse watering of the eyes. Redness.

Toxicological information on ingredients.

DIETHYLENETRIAMINE PENTA (METHYLENE PHOSPHONIC ACID)

Acute toxicity - oral

Acute toxicity oral (LD ₅₀ mg/kg)	7,180.0
Species	Rat
Notes (oral LD ₅₀)	LD ₅₀ 7180 mg/kg, Oral, Rat
ATE oral (mg/kg)	7,180.0

Acute toxicity - dermal

Acute toxicity dermal (LD ₅₀ mg/kg)	7,940.0
Species	Rabbit
Notes (dermal LD ₅₀)	LD ₅₀ > 7940 mg/kg, Dermal, Rabbit
ATE dermal (mg/kg)	7,940.0

Skin corrosion/irritation

Skin corrosion/irritation	Irritating to skin. Rabbit
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Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye damage. Rabbit
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Respiratory sensitisation

Respiratory sensitisation	No information available.
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Skin sensitisation

Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.
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Germ cell mutagenicity

Genotoxicity - in vitro	Bacterial reverse mutation test: Negative. Gene mutation: Inconclusive. Chromosome aberration: Positive.
Genotoxicity - in vivo	Chromosome aberration: Negative.

Carcinogenicity

Carcinogenicity	No information available.
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Reproductive toxicity

Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.

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Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not applicable.

Skin contact Irritating to skin.

Eye contact Causes serious eye damage.

HYDROCHLORIC ACID ...%

Skin corrosion/irritation

Animal data Causes severe burns.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Carcinogenicity

Carcinogenicity No information available.

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard Not applicable.

Inhalation Irritating to respiratory system.

Skin contact Causes severe burns.

Eye contact Causes serious eye damage.

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PHOSPHONIC ACID

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 1560 mg/kg, Oral, Rat @ 10%

ATE oral (mg/kg) 500.0

Skin corrosion/irritation

Animal data Corrosive. Rabbit

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation No information available.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

SECTION 12: Ecological information

Ecotoxicity The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment. The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

Ecological information on ingredients.

HYDROCHLORIC ACID ...%

Ecotoxicity The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

PHOSPHONIC ACID

Ecotoxicity The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

12.1. Toxicity

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Toxicity Not considered toxic to fish.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: > 180 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 242 mg/l, Daphnia magna

Ecological information on ingredients.

DIETHYLENETRIAMINE PENTA (METHYLENE PHOSPHONIC ACID)

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hour: 216 mg/l, Oncorhynchus mykiss (Rainbow trout)
LC₅₀, 96 hour: 6435 mg/l, Cyprinodon variegatus (Sheepshead minnow)
LC₅₀, 96 hour: 657 mg/l, (Ictalurus punctatus)
LC₅₀, 96 hour: 759 mg/l, Lepomis macrochirus (Bluegill)
NOEC, 66 day: 25.6 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hour: >250 mg/l, Marinewater invertebrates
EC₅₀, 48 hour: 5378 mg/l, Marinewater invertebrates
EC₅₀, 48 hour: 9910 mg/l, Freshwater invertebrates

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, 96 hour: 67 mg/l, Marinewater invertebrates

HYDROCHLORIC ACID ...%

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hour: 282 mg/l, (Gambusia affinis)
LC₅₀, 96 hour: 20.5 mg/l, Lepomis macrochirus (Bluegill)
LC₅₀, 7 day: 3 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hour: 0.45 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hour: 0.73 mg/l, Freshwater plants
NOEC, 72 hour: 0.364 mg/l, Freshwater plants

PHOSPHONIC ACID

Acute aquatic toxicity

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 1000 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 153 mg/l, Pseudokirchneriella subcapitata

12.2. Persistence and degradability

Persistence and degradability Not readily biodegradable.

Biodegradation - Degradation 11.15%: 60 days
OECD 301A

Ecological information on ingredients.

DEQUEST 2060S**DIETHYLENETRIAMINE PENTA (METHYLENE PHOSPHONIC ACID)**

Persistence and degradability	The product is not readily biodegradable.
Phototransformation	- Degradation <14%: 17 day
Biodegradation	Activated sludge - Degradation 3.51%: 24 day OECD 302 A marine water - Degradation 0%: 28 day OECD 306 - Degradation 7%: 28 day OECD 301D - Degradation 64%: 148 day

PHOSPHONIC ACID

Persistence and degradability	The product contains inorganic substances which are not biodegradable.
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12.3. Bioaccumulative potential

Bioaccumulative potential	The product is not bioaccumulating.
Partition coefficient	log Pow: -3.4

Ecological information on ingredients.**DIETHYLENETRIAMINE PENTA (METHYLENE PHOSPHONIC ACID)**

Bioaccumulative potential	BCF: < 94,
Partition coefficient	log Pow: -3.40

PHOSPHONIC ACID

Bioaccumulative potential	No data available on bioaccumulation.
Partition coefficient	No information available.

12.4. Mobility in soil

Mobility	Miscible with water.
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Ecological information on ingredients.**PHOSPHONIC ACID**

Mobility	The product is soluble in water.
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12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.
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Ecological information on ingredients.**PHOSPHONIC ACID**

Results of PBT and vPvB assessment	Not applicable.
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12.6. Other adverse effects

Other adverse effects None known.

Ecological information on ingredients.

PHOSPHONIC ACID

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste. Do not puncture or incinerate, even when empty.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General Wear protective clothing as described in Section 8 of this safety data sheet.

14.1. UN number

UN No. (ADR/RID) 3265

UN No. (IMDG) 3265

UN No. (ICAO) 3265

UN No. (ADN) 3265

14.2. UN proper shipping name

Proper shipping name (ADR/RID) CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CONTAINS HYDROCHLORIC ACID ...%, DIETHYLENETRIAMINE PENTA (METHYLENE PHOSPHONIC ACID))

Proper shipping name (IMDG) CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CONTAINS HYDROCHLORIC ACID ...%, DIETHYLENETRIAMINE PENTA (METHYLENE PHOSPHONIC ACID))

Proper shipping name (ICAO) CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CONTAINS HYDROCHLORIC ACID ...%, DIETHYLENETRIAMINE PENTA (METHYLENE PHOSPHONIC ACID))

Proper shipping name (ADN) CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CONTAINS HYDROCHLORIC ACID ...%, DIETHYLENETRIAMINE PENTA (METHYLENE PHOSPHONIC ACID))

14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID classification code C3

ADR/RID label 8

IMDG class 8

ICAO class/division 8

ADN class 8

Transport labels



14.4. Packing group

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ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

IMDG Code segregation group 1. Acids

EmS F-A, S-B

ADR transport category 3

Emergency Action Code 2X

Hazard Identification Number (ADR/RID) 80

Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Commission Regulation (EU) No 2015/830 of 28 May 2015.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

All the ingredients are listed or exempt.

Canada - DSL/NDL

All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

Australia - AICS

All the ingredients are listed or exempt.

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Japan - ENCS

All the ingredients are listed or exempt.

Korea - KECI

All the ingredients are listed or exempt.

China - IECSC

All the ingredients are listed or exempt.

Philippines – PICCS

All the ingredients are listed or exempt.

New Zealand - NZIOC

All the ingredients are listed or exempt.

Taiwan - TCSI

All the ingredients are listed or exempt.

SECTION 16: Other information

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Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
 CAS: Chemical Abstracts Service.
 DNEL: Derived No Effect Level.
 IATA: International Air Transport Association.
 IMDG: International Maritime Dangerous Goods.
 Kow: Octanol-water partition coefficient.
 LC₅₀: Lethal Concentration to 50 % of a test population.
 LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
 PBT: Persistent, Bioaccumulative and Toxic substance.
 PNEC: Predicted No Effect Concentration.
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
 vPvB: Very Persistent and Very Bioaccumulative.
 IARC: International Agency for Research on Cancer.
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
 cATpE: Converted Acute Toxicity Point Estimate.
 BCF: Bioconcentration Factor.
 BOD: Biochemical Oxygen Demand.
 EC₅₀: 50% of maximal Effective Concentration.
 LOAEC: Lowest Observed Adverse Effect Concentration.
 LOAEL: Lowest Observed Adverse Effect Level.
 NOAEC: No Observed Adverse Effect Concentration.
 NOAEL: No Observed Adverse Effect Level.
 NOEC: No Observed Effect Concentration.
 LOEC: Lowest Observed Effect Concentration.
 DMEL: Derived Minimal Effect Level.
 EL50: Exposure Limit 50
 hPa: Hectopascal
 LL50: Lethal Loading fifty
 OECD: Organisation for Economic Co-operation and Development
 POW: Octanol-water partition coefficient
 SCBA: self-contained breathing apparatus
 STP: Sewage Treatment Plant
 VOC: Volatile Organic Compounds

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
 Aquatic Acute = Hazardous to the aquatic environment (acute)
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Key literature references and sources for data

Supplier's information.

Classification procedures according to Regulation (EC) 1272/2008

Met. Corr. 1 - H290: Expert judgement. Skin Corr. 1B - H314: Expert judgement. Eye Dam. 1 - H318: Expert judgement. STOT SE 3 - H335: Expert judgement.

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date

29/12/2021

DEQUEST 2060S

Version number	5.000
Supersedes date	18/02/2020
SDS number	11101
SDS status	Approved.
Hazard statements in full	H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.
Signature	Lisa Bland

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