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

1.1 Product identifiers

Product name : PlateScint O
 Product number : PSO
 Brand : Hidex
 REACH NO. : A registration number is not available for this mixture. All the substances used within the mixture are either; Pre-REACH registered, fully REACH Registered, exempt from registration or the annual tonnage does not require registration.

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

Scientific Research and Development ONLY (Sector of Use: SU24). Not for consumer use.
 Application of the substance / the mixture: Liquid Scintillation Cocktail ONLY.

1.3 Details of the supplier of the safety data sheet

Supplier : Hidex Chemicals Oy
 Address : Lemminkäisenkatu 62, FIN-20520, Turku, Finland
 Telephone : +358 10 843 5570
 Website : www.hidex.com
 E-mail address : chemicals@hidex.com

1.4 Emergency telephone numbers

Call your local poison centre quoting the Unique Formula Identifier Code given in section 1.1.

Poison Centres

Country	Language	European Poison Centre	Phone	Website
Belgium	French	Centre Antipoisons	070 245 245 (free, 24/7)	https://www.centreactipoisons.be
	Dutch	Antigif centrum	070 245 245 (free, 24/7)	http://www.antigifcentrum.be
Finland	Finnish Swedish English	Helsinki University Hospital– Poison Information Centre	0800 147 111 (free, 24/7) 09 471 977 (charged)	https://www.hus.fi/en/potilaalle/sairaalat-ja-toimipisteet/myrkytystietokeskus
France	French English	Service national d'assistance réglementaire REACH	+ 33 (0) 1 45 42 59 59 (free, 24/7) This number takes you through to local poison centre numbers for the different regions	https://reach-info.ineris.fr/Numero_orfila
Germany	German English	Local Poison Centres:		
		Berlin	+49 (0) 30 19240	https://giftnotruf.charite.de
		Bonn	+49 (0) 228 19240	http://www.gizbonn.de
		Erfurt	+49 (0) 361 730730	https://www.ggiz-erfurt.de/home.html
		Freiburg	+49 (0) 761 19240	https://www.uniklinik-freiburg.de/giftberatung.html
		Göttingen	+49 (0) 551 19240	https://www.giz-nord.de/cms/index.php
		Homburg/Saer	+49 (0) 6841 19240	http://www.uniklinikum-saarland.de/de/einrichtungen/kliniken_institute/
		Mainz	+49 (0) 6131 19240	http://www.giftinfo.uni-mainz.de
		München	+49 (0) 89 19240	http://www.toxinfo.med.tum.de

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Poison Centres – Call your local poison centre quoting the Unique Formula Identifier Code given in section 1.1.

Country	Language	European Poison Centre	Phone	Website
Hungary	Hungarian	Health toxicology information service	+36 80 201 199 (free 24/7 - only from Hungary) +36 1 476 6464 (24/7, can be called for a normal fee from abroad)	https://www.nnk.gov.hu/index.php/kemiai-biztonsagi-es-kompetens-hatosagi-fo/egeszseguigy-toxikologiai-tajekoztato-szolgalat
Italy	Italian	Centro Antiveleni firenze	+39 055 794 7819 (24/7)	Presentazione (antiveleni.altervista.org)
Ireland	English	Poisons information Centre of Ireland	+353 1 809 21 66 (8am-10pm / 7 days a week) +353 1 809 25 66 (24/7, healthcare profession only)	https://www.poisons.ie/
Lithuania	Lithuanian English	Poison Information Bureau part of The State Medicines Control Agency	+370 8-5 236 20 52 (free, 24/7)	http://www.apsinuodijau.lt/pirma-pagalba/
Netherlands	French English Dutch	National Poisons Information Center / University Medical Center Utrecht	+31 88 75 585 61	https://www.umcutrecht.nl/nl
Poland	Polish	National Poison Information Centres:		
		Krakow	+48 12 411 99 99	http://www.oit.cm.uj.edu.pl
		Gdansk	+48 58 682 04 04	http://www.pctox.pl/new/
		Poznań	+48 61 847 69 46	N/A
		Warszawa	+48 607 218 174	N/A
Romania	Romanian	National Institute for Public Health, Ministry of Health		
		CNMRMC	+40 213 183 606	N/A
		Spitalul Clinic de Urgenta Bucuresti	+40 215 992 300 int. 291	N/A
		Spitalul Clinic Judetean de Urgenta Targu Mures	+40 265.212.111	N/A
Slovakia	Slovak	National Toxicological Information Centre	+421 2 5477 4166	http://www.ntic.sk/ntic_en.php
Spain	Spanish	National Emergency Telephone Number of Spanish Poison Centre	+34 91 562 04 20	https://www.miteco.gob.es/es/calidad-y-evaluacion-ambiental/temas/productos-quimicos/portal-reach-clp/novedades/detalle_novedades.aspx?id=tc:30-193752-16
Sweden	Swedish English	Swedish Poison Information Centre	112 (24/7) Emergency 010-456 6700 Less urgent	In English - Giftinformationscentralen
UK	English	National Poisons Information Service NHS	+44 (0) 344 892 0111 - Healthcare Professionals ONLY 111 – General public	https://www.npis.org/Industrynotify.html https://www.nhs.uk/nhs-services/

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2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute Oral Toxicity	Category 4	H302
Aspiration Toxicity	Category 1	H304
Skin Irritation	Category 2	H315
Eye Damage	Category 1	H318
Chronic Aquatic	Category 1	H410

For the full text of the H-Statements mentioned here - see section 16

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard
pictograms



GHS05



GHS07



GHS08



GHS09

Signal word

Danger

Contains Di-isopropyl-naphthalene isomers, 4-Nonyl Phenol Ethoxylated (NPE) and 2-(2-butoxyethoxy)ethanol

Hazard statements

H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H318	Causes serious eye damage
H410	Very toxic to aquatic life with long lasting effects

Precautionary statements

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310 + P331	IF SWALLOWED: Immediately call a POISON CENTRE / DOCTOR. DO NOT INDUCE VOMITING
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

2.3 Other hazards

Results of PBT and vPvB assessment:

This product contains di-isopropyl-naphthalene isomers (CAS # 38640-62-9) and should be handled accordingly as if it were a PBT/vPvB.

Endocrine Disrupting Properties:

This product contains 4-Nonyl Phenol Ethoxylates (CAS # 127087-87-0) which degrades to form 4-Nonyl Phenol (CAS # 104-40-5). 4-Nonyl phenol has endocrine disrupting properties which can adversely affect the environment (in accordance with REACH article 57(f)).

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3.1 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with non-hazardous additions.

Hazardous components:

Di-isopropyl naphthalene isomers					
CAS #: 38640-62-9 EC NUMBER: 254-052-6 REACH: 01-2119565150-48-XXXX	Aspiration Toxicity category 1 Chronic aquatic 1	H304 H410	50-80%	ATE: M Factor: SCL:	N/A Chronic=1 N/A
4-Nonyl Phenol Ethoxylated (NPE)					
- Included in the Regulation (EC) No.1907/2006 (REACH). - Candidate List of Substances of Very High Concern (SVHC) - Listed - Annex XIV – Listed. Exempt from Authorisation Requirements under Scientific Research and Development (Article 56 (3) of REACH) - Annex XVII – Restriction on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles – Listed under entry 46a. This is not applicable to this application.					
CAS #: 127087-87-0 EINECS: 500-315-8 REACH: Exempt	Acute oral toxicity category 4 Skin irritation category 2 Eye damage category 1 Chronic aquatic category 2	H302 H315 H318 H411	20-40%	ATE: M Factor : SCL:	N/A N/A N/A
Phosphate Ester					
CAS #: 698130-47-2 REACH: N/A	Eye damage category 1 Skin corrosive category 1C	H318 H315	< 1 %	ATE: M Factor: SCL:	N/A N/A N/A
2-(2-butoxyethoxy)ethanol					
Annex XVII -Restriction on the manufacture, placing on the market and use of dangerous substances, preparations and articles - Listed under entry 55. Not applicable in this application					
CAS #: 112-34-5 EC NUMBER: 203-961-6 REACH: 01-2119475104-44-XXXX	Eye irritation category 2	H319	5-10%	ATE: M Factor: SCL:	N/A N/A N/A

For the full text of the H-Statements - see section 16 and for further information on the Regulations - see section 15

SECTION 4: First Aid Measures

4.1 Description of first aid measures

General information:

Consult a doctor. Show this safety data sheet to the doctor in attendance.

If inhaled:

Move person into fresh air.

In case of contact with skin contact: Wash off with plenty of water.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a doctor. Protect unharmed eye.

If swallowed: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing agents:

Carbon Dioxide, dry powder or water spray.
Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for fire-fighters

Special Protective equipment:

Wear self-contained respiratory protective device.

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Further Information:

Wear fully protective suit.

Cool closed containers exposed to fire with water spray. Contaminated water must not be discharged into drains.

SECTION 6: Accidental Release Measures**6.1 Personal precautions, protective equipment and emergency procedures****Personal precautions:**

Use personal protective equipment. Keep unprotected persons away.

Special precautions:

Particular danger of slipping on leaked/spilled product.

6.2 Environmental precautions**Environmental precautions:**

Inform respective authorities in case of seepage into water course.

Do not allow to enter surface or ground water.

Dilute with plenty of water.

6.3 Methods and material for containment and cleaning up**Methods for cleaning up:**

Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Pick up mechanically

Dispose of according to local regulations (see section 13).

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and Storage**7.1 Precautions for safe handling****Advice on safe handling:**

Wear personal protective equipment.

Avoid contact with skin and eyes.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire and explosion protection:

Keep away from sources of ignition and do not smoke.

7.2 Conditions for safe storage, including any incompatibilities**Requirements to be met by storerooms and receptacles:**

No special requirements.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

Keep container tightly sealed.

Protect from exposure to the light.

7.3 Specific end use(s)

Advised temperature of use: 15-25°C.

Uses identified and documented

SECTION 8: Exposure Controls / Personal Protection**8.1 Control parameters****Components with workplace control parameters:**

Component	CAS - No	Exposure	Value	Control Parameter
Di-isopropyl naphthalene isomers	38640-62-9	DNEL	long term	2.1 mg/kg/d ORAL 2.1 mg/kg/d DERMAL 7.4 mg/kg/d INHALATION

Component	Country	Values			
2-(2-butoxyethoxy) ethanol		Eight hours		Short-term	
		ppm	mg/m ³	ppm	mg/m ³
CAS No.: 112-34-5	UK	10	67.5	15	101.2
	EU	10	67.5	15	101.2
	France	10	67.5	15	101.2

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	Germany	10	67	15	100
	Netherlands		50		100
	Slovakia				
	Finland	10	68		
	Poland		67		100
	Hungary		67.5		101.2
	Belgium	10	67.5	15	101.2
	Spain	10	67.5	15	101.2
	Romania	10	67.5	15	101.2
	Lithuania				

8.2 Exposure controls

General protective and hygienic measures: Handle in accordance with good industrial hygiene and safety practice. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working.

Personal Protective Equipment:

Respiratory protection:

Skin protection:

Wear suitable gloves, body and eye protection and a face shield.

No personal respiratory protective equipment normally required.

Handle with protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Splash contact

Material: Nitrile-rubber, Minimum layer thickness: 0.4 mm

Break through time: 30 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye / face protection:

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Body protection:

Protective work clothing – complete suit protecting against chemicals. The type of protective clothing must be selected according to the concentration and amount of the dangerous substance at the specified workplace.

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state:

Liquid

Form:

Liquid

Colour:

According to specification

Odour:

Characteristic

Odour threshold:

Not determined

pH-value:

~6

Melting point/Melting range:

Not determined

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Boiling point/Boiling range:	290°C
Flash point:	148°C
Flammability (solid, gaseous):	Not applicable
Ignition temperature:	383°C
Decomposition temperature:	Not determined
Self-igniting:	Product is not self-igniting
Danger of explosion:	Product does not present explosion hazard.
Explosion limits:	Not determined
Vapour pressure:	1.5 hPa
Density at 20 °C:	0.96g/cm ³
Relative density	Not determined
Vapour density	Not determined
Evaporation rate	Not determined
Solubility in / Miscibility with water:	Partially Miscible
Particle size	Not applicable
Partition coefficient (n-octanol/water):	Not determined
Viscosity:	
Dynamic:	Not determined
Kinematic:	Not determined

9.2 Other information

Information with regard to physical hazard class: No additional information

Other Safety Characteristics: No additional information

SECTION 10: Stability and Reactivity

10.1 Reactivity:	No data available
10.2 Chemical stability	Stable under recommended storage conditions. No decomposition if used according to specifications.
10.3 Possibility of hazardous reactions:	Reacts with strong oxidising agents.
10.4 Conditions to avoid:	Toxic fumes may be released if heated above decomposition point.
10.5 Incompatible materials:	No further relevant information available.
10.6 Hazardous decomposition products:	Carbon monoxide, carbon dioxide, nitrogen oxides and phosphorus compounds.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Component	CAS - No	LD50 / 48 hours
Di-isopropyl-naphthalene isomers	38640-62-9	>4,000 mg/kg (rat) ORAL >4,000 mg/kg (rat) DERMAL >5.6 mg/l (rat) INHALATION
4-Nonyl Phenol Ethoxylated	127087-87-0	>2,000 mg/kg (rat) ORAL >2,000 mg/kg (rabbit) DERMAL >21.9 mg/l (rat) INHALATION
2-(2-butoxyethoxy) ethanol	112-34-5	>7,291 mg/kg (rat) ORAL >2,764 mg/kg (rat) DERMAL

Skin corrosion / irritation:	Causes skin irritation.
Serious eye damage / eye irritation:	Causes serious eye damage.
Respiratory sensitisation:	May cause respiratory irritation.
Germ cell mutagenicity:	Based on available data, classification criteria not met.
Carcinogenicity:	Based on available data, classification criteria not met.
Reproductive toxicity:	Based on available data, classification criteria not met.
Specific Target Organ Toxicity – Single Exposure:	Based on available data, classification criteria not met.
Specific Target Organ Toxicity – Repeated Exposure:	Based on available data, classification criteria not met.
Aspiration hazard:	May be fatal if swallowed and enters airways
Additional information:	The toxicological properties have not been fully investigated.

SECTION 12: Ecological Information

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12.1 Toxicity

Aquatic toxicity:

Component	CAS - No	LL50 / 48 hours
Di-isopropylnaphthalene isomers	38640-62-9	Daphnia 1.7 mg/l
4-Nonyl Phenol Ethoxylated	127087-87-0	Brachydanio rerio: > 1-10 mg/l
2-(2-butoxyethoxy) ethanol	112-34-5	Daphnia 1.3 mg/l

12.2 Persistence and degradability:

No further relevant information available.

12.3 Bio accumulative potential:

No further relevant information available.

12.4 Mobility in soil:

No further relevant information available.

12.5 Results of PBT and vPvB Assessment: This product contains a substance that is PBT/vPvB

12.6 Endocrine disrupting properties:

This product contains 4-Nonyl Phenol Ethoxylates (CAS # 127087-87-0), which degrades to form 4-Nonyl Phenol (CAS # 104-40-5), which has endocrine disrupting properties that can adversely affect the environment.

12.7 Other adverse effects

Additional ecological information:

Toxic to aquatic life with long lasting effects.

General notes:

Do not allow large quantities of product, undiluted or un-neutralised to reach ground water, water course or sewage system. Dangerous to drinking water even if small quantities leak into the ground. Poisonous to fish and plankton.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product:

Waste product must be disposed of according to local authority recommendations, e.g. convey to a suitable incinerator.

Uncleaned Packaging:

Disposal must be made according to official regulations.

Uncleaned packaging may be classifiable as hazardous waste.

SECTION 14: Transport Information

14.1 UN-Number: ADR, IMDG, IATA

UN3082

ADR/IMDG: Not restricted as per special provision 375

IATA: Not restricted as per special provision A 197

14.2 UN proper shipping name

ADR

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S.
(Contains Di-isopropylnaphthalene isomers, 4-Nonyl Phenol Ethoxylated)

IMDG/IATA

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S.
(contains Di-isopropylnaphthalene isomers, 4-Nonyl Phenol, Ethoxylated)
MARINE POLLUTANT

14.3 Transport hazard class(es)

ADR, IMDG, IATA

9 Miscellaneous dangerous goods

14.4 Packing group -

ADR, IMDG, IATA

III

14.5 Environmental hazards:

Marine pollutant

Special marking (ADR)

This product contains environmentally hazardous substances:
Di-isopropylnaphthalene isomers, 4-Nonyl Phenol Ethoxylated)

Symbol (fish and tree)

Symbol (fish and tree)

14.6 Special precautions for user

Danger code (Kemler):

WARNING: Miscellaneous dangerous goods

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EMS Number:

F-A,S-F

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14.7 Maritime transport in bulk according to IMO instruments

Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30g
	Maximum net quantity per outer packaging: 1000g
Transport category	3
Tunnel restriction code	E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ) Code:	E1
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000g
UN "Model Regulation":	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (contains contains Di-isopropylnaphthalene isomers, 4-Nonyl Phenol Ethoxylated), 9, III

SECTION 15: Regulatory Information

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

EU Regulations: REACH Regulation (EC) No. 1907/2006

Candidate List of Substances of Very High Concern (SVHC): Listed. 4-Nonyl Phenol Ethoxylate (NPE)

Authorisation List, Annex XIV: Listed 4-Nonyl Phenol Ethoxylate (NPE). This product is exempt from Authorisation Requirements under Scientific Research and Development (Article 56 (3) of REACH).

Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Annex XVII: Listed Entry 46a 4-Nonyl Phenol Ethoxylate (NPE) and Entry 55 2-(2-butoxyethoxy)ethanol not applicable in this application

15.2 Chemical Safety assessment: This has been carried out on the major REACH Registered components.

SECTION 16: Other Information

Hazard statements

H302	Harmful if swallowed
H304	Maybe fatal if swallowed and enters airways
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

Precautionary statements

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTRE / DOCTOR. DO NOT INDUCE VOMITING
P303+P361+P353	IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse continuously 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/national regulations.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

NIOSH: National Institute of Occupational Safety and Health

LL50: Loading rate of test substance resulting in 50% mortality)

LD50: Lethal dose, 50 percent

LC50: Lethal Concentration, 50 percent

ATE: Acute Toxicity Estimate

M Factor: Multiplying factor for substances that are highly toxic to aquatic environment

SCL: Specific Concentration Limit: a concentration limit that is specific to a substance and takes precedence over generic concentration limit or cut-off