

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 21/12/2021 Version: 1.0

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

1.1. Product identifier

l Ester

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

1.2.1. Relevant identified uses

Main use category

: Laboratory chemical

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Biosearch Technologies, Inc 2199 South McDowell Boulevard Petaluma, CA 94954-6904 USA

Only Representative Address: Unit 1-2 Trident Industrial Estate, Pindar Road Hoddesdon, EN110WZ England

1.4. Emergency telephone number

Emergency number

: +44 1992 470757 (9am - 5pm GMT)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4	H302
Acute toxicity (inhal.), Category 3	H331
Skin corrosion/irritation, Category 1, Sub-Category 1B	H314
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Specific target organ toxicity — Repeated exposure, Category 2	H373
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400
Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

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Contains :	Sodium nitrite; N-methylaniline; 3-Amino-7-diethylamino-5-phenylphenazinium chloride; Phosphate(1-), hexafluoro-, potassium; N-hydroxysuccinimide; Ethyl 4-bromobutyrate
Hazard statements (CLP) :	 H302 - Harmful if swallowed. H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H331 - Toxic if inhaled.
	H373 - May cause damage to organs through prolonged or repeated exposure. H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements (CLP) :	 P260 - Do not breathe dust/fume. P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER/doctor. P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

2.3. Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
3-Amino-7-diethylamino-5-phenylphenazinium chloride	CAS-No.: 4569-86-2 EC-No.: 610-268-6	30 – 60	Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 1, H410
Phosphate(1-), hexafluoro-, potassium	CAS-No.: 17084-13-8 EC-No.: 241-143-0	10 – 30	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314 Eye Dam. 1B, H318
Ethyl 4-bromobutyrate	CAS-No.: 2969-81-5 EC-No.: 221-005-6	7 – 15	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
N-methylaniline	CAS-No.: 100-61-8 EC-No.: 202-870-9 EC Index-No.: 612-015-00-5	7 – 15	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
N-hydroxysuccinimide	CAS-No.: 6066-82-6 EC-No.: 228-001-3	7 – 15	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Sodium nitrite	CAS-No.: 7632-00-0 EC-No.: 231-555-9 EC Index-No.: 007-010-00-4	1 – 5	Ox. Sol. 3, H272 Acute Tox. 3 (Oral), H301 Aquatic Acute 1, H400

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SECTION 4: First Aid measures	
4.1. Description of first aid measures	
First-aid measures general	: If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.
First-aid measures after inhalation	: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. If breathing is difficult, supply oxygen. If breathing has stopped, give artificial respiration.
First-aid measures after skin contact	: IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention immediately.
First-aid measures after eye contact	: IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.
First-aid measures after ingestion	: IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention immediately.
4.2. Most important symptoms and ef	fects, both acute and delayed
Symptoms/effects	: Toxic if inhaled. Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure.
Symptoms/effects after inhalation	: Toxic if inhaled.
Symptoms/effects after skin contact	: Causes severe skin burns. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes severe eye damage.
Symptoms/effects after ingestion	: Harmful if swallowed.
Chronic symptoms	: May cause damage to organs through prolonged or repeated exposure.
4.3. Indication of any immediate medi	cal attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Carbon dioxide. Dry powder. Water spray.
5.2. Special hazards arising from the subst	ance or mixture
Fire hazard Explosion hazard Reactivity in case of fire Hazardous decomposition products in case of fire	 Not flammable. Product is not explosive. None known. Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon oxides and other organic compounds will be evolved when this material undergoes thermal degradation.
5.3. Advice for firefighters	
Precautionary measures fire Firefighting instructions Protection during firefighting	 Eliminate all ignition sources if safe to do so. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Do not dispose of fire-fighting water in the environment. Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus.

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
General measures	: Evacuate area. Ventilate area. Keep upwind. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.		
6.1.1. For non-emergency personnel			
Protective equipment	: Wear Protective equipment as described in Section 8.		

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Emergency procedures	Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up		
For containment	: Avoid dust formation. Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. Clean up by scraping or collecting as material will be solid at room temperature.	
Methods for cleaning up	: Avoid dust formation. Scoop solid spill into closing containers or bags. This material and its container must be disposed of in a safe way, and as per local legislation.	

6.4. Reference to other sections

See Sections 8 and 13.

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	Do not handle until all safety precautions have been read and understood. Keep container closed when not in use. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.	
7.2. Conditions for safe storage, including an	ny incompatibilities	
Storage conditions	 Store in original container. Keep container closed when not in use. Containers which are opened should be properly resealed and kept upright to prevent leakage. Store in a dry, cool and well-ventilated place. Moisture. Air. 	
7.3. Specific end use(s)		

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

N-methylaniline (100-61-8)		
Austria - Occupational Exposure Limits		
MAK (OEL TWA)	2.2 mg/m³ (reaction with nitrosating agents can lead to formation of carcinogens N- Nitrosomethylaniline)	
MAK (OEL TWA) [ppm]	0.5 ppm (reaction with nitrosating agents can lead to formation of carcinogens N- Nitrosomethylaniline)	
MAK (OEL STEL)	8.8 mg/m³	
MAK (OEL STEL) [ppm]	2 ppm	
Chemical category	Skin notation	
Belgium - Occupational Exposure Limits		
OEL TWA	2.2 mg/m³	

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N-methylaniline (100-61-8)		
OEL TWA [ppm]	0.5 ppm	
Chemical category	Skin	
Croatia - Occupational Exposure Limits		
GVI (OEL TWA) [1]	2.2 mg/m ³	
GVI (OEL TWA) [2]	0.5 ppm	
Czech Republic - Occupational Exposure Limits		
PEL (OEL TWA)	2 mg/m ³	
Chemical category	Potential for cutaneous absorption	
Denmark - Occupational Exposure Limits		
OEL TWA [1]	2.25 mg/m³	
OEL TWA [2]	0.5 ppm	
Chemical category	Potential for cutaneous absorption	
France - Occupational Exposure Limits		
VME (OEL TWA)	2 mg/m ³	
VME (OEL TWA) [ppm]	0.5 ppm	
Chemical category	Risk of cutaneous absorption	
Germany - Occupational Exposure Limits (TRGS 90	0)	
AGW (OEL TWA) [1]	2.2 mg/m ³ (the reaction with nitrosating agents can lead to the formation of the corresponding carcinogenic N-Nitrosoamines)	
AGW (OEL TWA) [2]	0.5 ppm (the reaction with nitrosating agents can lead to the formation of the corresponding carcinogenic N-Nitrosoamines)	
Chemical category	Skin notation	
Greece - Occupational Exposure Limits		
OEL TWA	9 mg/m³	
OEL TWA [ppm]	2 ppm	
Chemical category	skin - potential for cutaneous absorption	
Ireland - Occupational Exposure Limits		
OEL TWA [1]	2 mg/m³	
OEL TWA [2]	0.5 ppm	
OEL STEL	6 mg/m³ (calculated)	
OEL STEL [ppm]	1.5 ppm (calculated)	
Chemical category	Potential for cutaneous absorption	
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	2 mg/m ³	
NDSCh (OEL STEL)	4 mg/m ³	
Portugal - Occupational Exposure Limits		
OEL TWA [ppm]	0.5 ppm	
Chemical category	skin - potential for cutaneous exposure	
Romania - Occupational Exposure Limits		
OEL TWA	7 mg/m³	

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N-methylaniline (100-61-8)				
OEL TWA [ppm]	16 ppm			
OEL STEL	10 mg/m ³			
OEL STEL [ppm]	23 ppm			
Chemical category	Skin notation			
Slovakia - Occupational Exposure Limits				
NPHV (OEL TWA) [1]	2.2 mg/m ³			
NPHV (OEL TWA) [2]	0.5 ppm			
NPHV (OEL C)	4.4 mg/m ³			
Chemical category	Potential for cutaneous absorption			
Slovenia - Occupational Exposure Limits				
OEL TWA	2.2 mg/m ³			
OEL TWA [ppm]	0.5 ppm			
OEL STEL	4.4 mg/m ³			
OEL STEL [ppm]	1 ppm			
Chemical category	Potential for cutaneous absorption			
Spain - Occupational Exposure Limits				
VLA-ED (OEL TWA) [1]	2.2 mg/m³ (reaction with nitrosating agents can lead to formation of carcinogenic N- Nitrosamines)			
VLA-ED (OEL TWA) [2]	0.5 ppm (reaction with nitrosating agents can lead to formation of carcinogenic N- Nitrosamines)			
Chemical category	skin - potential for cutaneous absorption			
Spain - Biological limit values				
BLV Parameter: Methemoglobin - Medium: blood - Sampling time: end of shift (BLVm)				
United Kingdom - Occupational Exposure Limits				
WEL TWA (OEL TWA) [1]	2.2 mg/m ³			
WEL TWA (OEL TWA) [2]	0.5 ppm			
WEL STEL (OEL STEL)	6.6 mg/m³ (calculated)			
WEL STEL (OEL STEL) [ppm]	1.5 ppm (calculated)			
WEL chemical category	Potential for cutaneous absorption			
Norway - Occupational Exposure Limits				
Grenseverdi (OEL TWA) [1]	2 mg/m³			
Grenseverdi (OEL TWA) [2]	0.5 ppm			
Korttidsverdi (OEL STEL)	4 mg/m ³ (value calculated)			
Korttidsverdi (OEL STEL) [ppm]	1.5 ppm (value calculated)			
Chemical category	Skin notation			
Switzerland - Occupational Exposure Limits				
MAK (OEL TWA) [1]	2.2 mg/m³ (the reaction with Nitrosating agent can lead to carcinogenic N- Nitrosomethylanilines)			
MAK (OEL TWA) [2]	0.5 ppm (the reaction with Nitrosating agent can lead to carcinogenic N- Nitrosomethylanilines)			

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N-methylaniline (100-61-8)			
KZGW (OEL STEL)	4.4 mg/m³ (the reaction with Nitrosating agent can lead to carcinogenic N- Nitrosomethylanilines)		
KZGW (OEL STEL) [ppm]	1 ppm (the reaction with Nitrosating agent can lead to carcinogenic N- Nitrosomethylanilines)		
Chemical category	Skin notation, Category C2 carcinogen		
USA - ACGIH - Occupational Exposure Limits			
Local name	N-Methylaniline		
ACGIH OEL TWA [ppm]	0.5 ppm		
Remark (ACGIH)	TLV® Basis: MeHb-emia; CNS impair. Notations: Skin; BEIM		
ACGIH chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route		
Regulatory reference	ACGIH 2021		
USA - ACGIH - Biological Exposure Indices			
BEI	1.5 % of hemoglobin Parameter: Methemoglobin - Medium: blood - Sampling time: during or end of shift (background, nonspecific, semi-quantitative)		
Sodium nitrite (7632-00-0)			
Finland - Occupational Exposure Limits			
Huomautus (FI)	Occupational Exposure Limits (OELs) not established (Työperäisen altistumisen raja- arvoja (OEL) ei määritetty)		
Lithuania - Occupational Exposure Limits			
NRV (OEL C)	0.1 mg/m ³		

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Ensure adequate ventilation, especially in confined areas.

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Protective goggles. Wear chemically impervious apron over labcoat and full coverage clothing.

Personal protective equipment symbol(s):



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8.2.2.1. Eye and face protection

Eye protection:

Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles [EN 166]

8.2.2.2. Skin protection

Skin and body protection:

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. [EN 14605:2005 and EN 13034:2005]

Hand protection:

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Be aware that the chemical may penetrate the gloves. Frequent changes are advisable. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier.

8.2.2.3. Respiratory protection

Respiratory protection:

Where vapour, mist, or dust exceed PELs or other applicable OELs, use the European Standard EN 529:2005 approved dust/particulate respiratory protective equipment.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			
Physical state	: Solid		
Appearance	: Powder.		
Colour	: Purple.		
Odour	: No data available.		
Odour threshold	: No data available		
рН	: No data available		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
Vapour pressure	: No data available		
Relative vapour density at 20 °C	: No data available		
Relative density	: No data available		
Solubility	: No data available		
Partition coefficient n-octanol/water (Log Pow)	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidising properties	: No data available		
Explosive limits	: No data available		

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

Air and moisture sensitive.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

None under normal use.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information				
11.1. Information on toxicological effects				
Acute toxicity (oral):Acute toxicity (dermal):Acute toxicity (inhalation):	Harmful if swallowed. Not classified Toxic if inhaled.			
N-methylaniline (100-61-8)				
LD50 oral rat	280 mg/kg			
LD50 dermal rabbit	3000 mg/kg			
Sodium nitrite (7632-00-0)				
LD50 oral rat	85 mg/kg			
LC50 Inhalation - Rat	5.5 mg/l/4h			
Phosphate(1-), hexafluoro-, potassium (17084-13-8)				
LD50 oral rat	≈ 1400 mg/kg bodyweight Animal: rat, Animal sex: male			
Serious eye damage/irritation:Serious eye damage/irritation:Respiratory or skin sensitisation:Germ cell mutagenicity:Carcinogenicity:Reproductive toxicity:STOT-single exposure:STOT-repeated exposure:	Causes serious eye damage. May cause an allergic skin reaction. Not classified Not classified Not classified Not classified May cause damage to organs through prolonged or repeated exposure.			
Aspiration hazard :	Not classified			

11.2. Information on other hazards

11.2.1 Endocrine disrupting properties

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

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SECTION 12: Ecological information				
12.1. Toxicity				
Ecology - general : Hazardous to the aquatic environment, short-term : (acute) Hazardous to the aquatic environment, long-term : (chronic)	No data available. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.			
Ethyl 4-bromobutyrate (2969-81-5)				
LC50 - Fish [1]	20.654 mg/l Source: Ecological Structure Activity Relationships			
EC50 96h - Algae [1]	17.298 mg/l Source: Ecological Structure Activity Relationships			
N-methylaniline (100-61-8)				
LC50 - Fish [1]	100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])			
EC50 72h - Algae [1]	3.8 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			
NOEC (chronic)	0.29 mg/l Test organisms (species): Daphnia magna Duration: '504 h'			
Sodium nitrite (7632-00-0)				
LC50 - Fish [1]	0.19 mg/l 96 Hr Oncorhynchus mykiss [flow-through] (juvenile)			
LC50 - Fish [2]	0.092 – 0.13 mg/l 96 Hr Oncorhynchus mykiss [flow-through]			
EC50 - Crustacea [1]	18.11 mg/l			
EC50 72h - Algae [1]	159 mg/l			
N-hydroxysuccinimide (6066-82-6)				
LC50 - Fish [1]	69925.4 mg/l Source: Ecological Structure Activity Relationships			
Phosphate(1-), hexafluoro-, potassium (17084-13-8)				
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			
12.2. Persistence and degradability				

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

12.7. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	 Do not discharge to public wastewater systems without permit of pollution control authorities. Dispose in a safe manner in accordance with local/pational regulations. Do not allow the
Froduct/Fackaging disposal recommendations	product to be released into the environment.
SECTION 14: Transport information	
In accordance with ADR / IMDG / IATA / ADN / RID	
14.1. UN number	
UN-No. (ADR)	: UN 3077
	· UN 2077
	: UN 3077
UN-No. (RID)	: UN 3077
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (IATA)	: Environmentally hazardous substance, solid, n.o.s.
Proper Shipping Name (ADN)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (RID)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Transport document description (ADR)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (3-Amino-7- diethylamino-5-phenylphenazinium chloride ; N-methylaniline), 9, III, (-)
Transport document description (IMDG)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (3-Amino-7- diethylamino-5-phenylphenazinium chloride; N-methylaniline), 9, III, MARINE POLLUTANT
Transport document description (IATA)	: UN 3077 Environmentally hazardous substance, solid, n.o.s. (3-Amino-7-diethylamino-5- phenylphenazinium chloride : N-methylaniline). 9. III
Transport document description (ADN)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (3-Amino-7- diethylamino-5-phenylphenazinium chloride ; N-methylaniline), 9, III
Transport document description (RID)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (3-Amino-7- diethylamino-5-phenylphenazinium chloride ; N-methylaniline), 9, III
14.3. Transport hazard class(es)	

ADR

Transport hazard class(es) (ADR)	:	9
Danger labels (ADR)	:	9



IMDG

Transport hazard class(es) (IMDG) Danger labels (IMDG)

: 9

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14.5. Environmental hazards

Dangerous for the environment	
Marine pollutant	
Other information	

: Yes

: Yes

: No supplementary information available

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14.6. Special precautions for user

Overland transport

Classification code (ADR)	:	M7
Special provisions (ADR)	:	274, 335, 375, 601
Limited quantities (ADR)	:	5kg
Excepted quantities (ADR)	:	E1
Packing instructions (ADR)	:	P002, IBC08, LP02, R001
Special packing provisions (ADR)	:	PP12, B3
Mixed packing provisions (ADR)	:	MP10
Portable tank and bulk container instructions (ADR)	:	T1, BK1, BK2, BK3
Portable tank and bulk container special provisions (ADR)	:	TP33
Tank code (ADR)	:	SGAV, LGBV
Vehicle for tank carriage	:	AT
Transport category (ADR)	:	3
Special provisions for carriage - Packages (ADR)	:	V13
Special provisions for carriage - Bulk (ADR)	:	VC1, VC2
Special provisions for carriage - Loading, unloading and handling (ADR)	:	CV13
Hazard identification number (Kemler No.)	:	90
Orange plates	:	90 3077
Tuppel restriction code (ADR)		
FAC code		27
	•	
Transport by sea (IMDG)		
Special provisions (IMDG)	:	274, 335, 966, 967, 969
Limited quantities (IMDG)	:	5 kg
Excepted quantities (IMDG)	:	E1
Packing instructions (IMDG)	:	LP02, P002
Special packing provisions (IMDG)	:	PP12
IBC packing instructions (IMDG)	:	IBC08
IBC special provisions (IMDG)	:	B3
Tank instructions (IMDG)	:	BK1, BK2, BK3, T1
Tank special provisions (IMDG)	:	TP33
EmS-No. (Fire)	:	F-A
EmS-No. (Spillage)	:	S-F
Stowage category (IMDG)	:	A
Stowage and handling (IMDG)	:	SW23
Air transport (IATA)		
PCA Excepted quantities (IATA)	:	E1
PCA Limited quantities (IATA)	:	Y956
PCA limited quantity max net quantity (IATA)	:	30kgG
PCA packing instructions (IATA)	:	956
PCA max net quantity (IATA)	:	400kg
CAO packing instructions (IATA)	:	956
CAO max net quantity (IATA)	:	400kg
Special provisions (IATA)	:	A97, A158, A179, A197, A215
ERG code (IATA)	:	9L

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Inland waterway transport		
Classification code (ADN)	:	M7
Special provisions (ADN)	:	274, 335, 375, 601
Limited quantities (ADN)	:	5 kg
Excepted quantities (ADN)	:	E1
Equipment required (ADN)	:	PP, A
Number of blue cones/lights (ADN)	:	0
Additional requirements/Remarks (ADN)	:	* Only in the molten state. ** For carriage in bulk see also 7.1.4.1. ** * Only in the case of transport in bulk.
Rail transport		
Classification code (RID)	:	M7
Special provisions (RID)	:	274, 335, 375, 601
Limited quantities (RID)	:	5kg
Excepted quantities (RID)	:	E1
Packing instructions (RID)	:	P002, IBC08, LP02, R001
Special packing provisions (RID)	:	PP12, B3
Mixed packing provisions (RID)	:	MP10
Portable tank and bulk container instructions (RID)	:	T1, BK1, BK2, BK3
Portable tank and bulk container special provisions (RID)	:	TP33
Tank codes for RID tanks (RID)	:	SGAV, LGBV
Transport category (RID)	:	3
Special provisions for carriage – Packages (RID)	:	W13
Special provisions for carriage – Bulk (RID)	:	VC1, VC2
Special provisions for carriage - Loading, unloading and handling (RID)	:	CW13, CW31

Colis express (express parcels) (RID): CE11Hazard identification number (RID): 90

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

All chemical substances in this product are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule") of Feb 2019, as amended Feb 2021 or are otherwise exempt, or regulated by other agencies such as FDA or FIFRA except the following:

3-Amino-7-diethylamino-5-phenylphenazinium chloride	(CAS-No.) 4569-86-2
Phosphate(1-), hexafluoro-, potassium	(CAS-No.) 17084-13-8

Germany

Water hazard class (WGK)

: WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

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Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	: None of the components are listed
SZW-lijst van reprotoxische stoffen -	: None of the components are listed
Ontwikkeling	
Denmark	
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product
Switzerland	
Storage class (LK)	: LK 6.1 - Toxic materials
Chemicals Ordinance (SR 813.11)	: Group 2

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information Version 1.0. Other information : SDS Prepared for LGC by: Pace Analytical Services, Inc. Product Regulatory Services Group 1800 Elm Street Minneapolis, MN 55414 United States 612-656-1175 paceSDS@pacelabs.com Data sources : Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Classification for the USA in accordance with 29 CFR 1910.1200 (2012). Classification for the EU in accordance with 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. ECHA (European Chemicals Agency). Educational advice By normal use of this product is meant use in accordance with the instructions on the • packaging.

Abbreviations and acronyms		
ACGIH	American Conference of Governement Industrial Hygienists	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
CAS-No.	Chemical Abstract Service number	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	

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Abbreviations and acronyms		
EC-No.	European Community number	
ED	Endocrine disrupting properties	
EN	European Standard	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LD50	Median lethal dose	
OEL	Occupational Exposure Limit	
OSHA	Occupational Safety and Health Administration	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STOT	Specific target organ toxicity	
TRGS	Technical Rules for Hazardous Substances	
vPvB	Very Persistent and Very Bioaccumulative	
WGK	Water Hazard Class	

Classification according to Regulation (EC) No. 1272/2008	Classification procedure
Acute Toxicity, Catetgory 4 (Oral)	Calculation method
Acute Toxicity, Category 3 (Inhalation)	Calculation method
Skin Corrosion, Category 1B	Specific concentration limit
Eye Damage, Category 1	Specific concentration limit
Skin Sensitization, Category 1	Specific concentration limit
Specific target organ toxicity, Repeated exposure, Category 2	Specific concentration limit
Hazardous to the aquatic environment — Acute Hazard, Category 1	Calculation method
Hazardous to the aquatic environment — Chronic Hazard, Category 1	Calculation method

Safety Data Sheet (SDS), EU

This information is disclosed to the best of LGC's knowledge. This document does not constitute a contractual relationship with product end users or handlers with respect to the possible presence of hazards in this item. Disposal should be in accordance with applicable regional, national and local laws and regulations.