www.himedialabs.com Safety data sheet(SDS) According to Regulation (EC) No.1907/2006 Revision : 00003

Date of Revision : 22.02.2022

# 1 Identification of the substances/ mixture and of the company/ undertaking

1.1	Product Identifiers		
	Product Number	M677	
	Product Name	Yeast Nitrogen Base Agar (Twin pack)	
	<b>REACH Registration Number</b>	This product is a mixture. Reach registrat	tion number is not available for
		this mixture.	
1.2	Relevant identified uses of	the substance or mixture and uses advise	ed against
1.2.1	Relevant identified uses	Laboratory Chemicals, Analytical Purpose	, Biochemical Analysis
1.3	Details of the supplier of th	e safety data sheet	
1.3	<b>Details of the supplier of th</b> Produced by	<b>e safety data sheet</b> HiMedia Laboratories Private Limited	
1.3	••	-	ial Area, Thane(W), - 400 604, India
1.3	Produced by	HiMedia Laboratories Private Limited	ial Area, Thane(W), - 400 604, India Fax No. : +91-22- 61471920
1.3	Produced by Address	HiMedia Laboratories Private Limited C - 40,Road No.21Y,MIDC, Wagle Industr	
1.3	Produced by Address Tel. No.	HiMedia Laboratories Private Limited C - 40,Road No.21Y,MIDC, Wagle Industr +91-22- 6147 1919/6116 9797	Fax No. : +91-22- 61471920

## 2 Hazards Identification

# 2.1 Classification of the substance or mixture *CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]*

Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008.

# 2.2 Label elements

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## Labeling according to Regulation (EC) No.1272/2008

The product does not need to be labelled in accordance with EC directives or respective national laws.

#### 2.3 Other Hazards

None

#### 3 Composition/Information On Ingredients

#### 3.2 Mixture

Co	mponent	Classification	Concentration
Niacin			
CAS No. :	59-67-6	As Per EC Regulation 1272/2008	>=0.01 - <=0.1%
EC No. :	200-441-0	Eye Irrit. 2A H319	

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Co	mponent	Classification	Concentration
p-Amino benzoi	ic acid (PABA)		
CAS No. :	150-13-0	As Per EC Regulation 1272/2008	>=0.01 - <=0.1%
EC No. :	205-753-0	Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2A H315; H317; H319	

	Component	Classification	Concentration
Boric acid			
CAS No. :	10043-35-3	As Per EC Regulation 1272/2008	>=0.01 - <=0.1%
EC No. :	233-139-2	Repr.Tox. 1A, 1B H360	
Index-No :	005-007-00-2		

Co	mponent	Classification	Concentration
Copper sulphate	2		
CAS No. :	7758-98-7	As Per EC Regulation 1272/2008	>=0.01 - <=0.1%
EC No. :	231-847-6	Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit.	
		2A; Aquatic Chronic 1 H302; H315;	
		H319; H410	
		As Per EC Directive 67/548/EEC or	
		1999/45/EC	
		Xn; Xi; N R22; R36/38; R50/53	

Concentration	Classification	onent	Com
			Potassium iodide
>=0.01 - <=0.1%	As Per EC Regulation 1272/2008	7681-11-0	CAS No. :
ye Irrit.	Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit.	231-659-4	EC No. :
	2A H302; H315; H319		

Со	mponent	Classification	Concentration
Ferric chloride			
CAS No. :	7705-08-0	As Per EC Regulation 1272/2008	>=0.01 - <=0.1%
EC No. :	231-729-4	Met. Corr. 1; Acute Tox.oral 4; Skin Irrit.	
		2; Eye Dam. 1 H290; H302; H315;	
		H318	

Сог	mponent	Classification	Concentration
Manganese sulpl	hate		
CAS No. :	10034-96-5	As Per EC Regulation 1272/2008	>=0.01 - <=0.1%
EC No. :	232-089-9	STOT RE 2; Aquatic Chronic 2 H373;	
Index-No :	025-003-00-4	H411	
			1

	Component	Classification	Concentration
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Zinc sulphate			
CAS No. :	7446-19-7	As Per EC Regulation 1272/2008	>=0.01 - <=0.1%
EC No. :	231-793-3	Eye Dam. 1; Aquatic Chronic 1 H318; H410	

Co	omponent	Classification	Concentration
Calcium chloric	le, anhydrous		
CAS No. :	10043-52-4	As Per EC Regulation 1272/2008	>=1.0 - <=10.0%
EC No. :	233-140-8	Eye Irrit. 2A H319	

Refer Section 16 for complete statement of H codes and its classification

# 4 First Aid Measures

## 4.1 Description of first aid measures

## General advice

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

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# **4.2 Most important symptoms and effects, both acute and delayed** No data available.

# **4.3** Indication of immediate medical attention and special treatment needed No data available

#### 5 Fire Fighting Measures

#### 5.1 Extinguishing media

# Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

# Unsuitable extinguishing media

No data available.

# 5.2 Special hazards arising from the substance or mixture Carbon oxides, Sodium oxides, Calcium oxide, Magnesium oxides, Sulphur oxides, Oxides of phosphorus, Potassium oxides

# **5.3 Precautions for fire-fighters** Wear self contained breathing apparatus for fire fighting if necessary

## 5.4 Further information No data available

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6.1	Personal precautions, protective equipment and emergency procedures		
	Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.		
	Evacuate personnel to safe areas.		

# 6.2 Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. 6.3 Methods and materials for containment and cleaning up

Soak up with inert adsorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections** For disposal see Section 13.

# 7 Handling and Storage

# 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended Storage Temperature : On receipt store between 2-8°C

# 7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

# 8 Exposure Controls/Personal Protection

#### 8.1 Control parameters

Components with workplace control parameters

# 8.2 Exposure controls

#### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the products.

#### Personal protective equipment

#### Hygiene measure

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.

# Eye/face protection

Tightly fitting saftey 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). *Skin protection* 

Handle with gloves. 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 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 2016/425/EEC and the standard EN ISO 374-1/2016 derived from it.

#### **Body protection**

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. *Respiratory protection* 

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environment exposure controls

Do not empty into drains.

#### 9 Physical and chemical properties

# 9.1 Information on basic physical and chemical properties Appearance Part A : White to cream homogeneous free

	flowing powder
	Part B : White to cream homogeneous free
	flowing powder
Odour	No data available
Odour Threshold	No data available
рН	5.20 - 5.60
Melting/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Flammability (Solid, gas)	No data available
Vapour pressure	No data available
Relative density	No data available
Water Solubility	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Vapour density	No data available
Thermal decomposition	No data available

# 9.2 Other safety information

No data available

#### 10 Stability and Reactivity

- 10.1 Reactivity No data available
- **10.2 Chemical stability** No data available
- **10.3 Possibility of hazardous reactions** No data available
- **10.4** Conditions to avoid No data available

- **10.5** Incompatible materials No data available
- **10.6 Hazardous decomposition products** Refer Section 5.2. Other Decomposition products not known.

# 11 Toxicological Information

11.1 Information on toxicological effects Acute toxicity No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Reproductive toxicity No data available Specific target organ toxicity- single exposure No data available Aspiration hazard No data available **Potential Health Effects** Inhalation

REFER SECTION 2 *Skin* REFER SECTION 2 *Eyes* REFER SECTION 2 *Ingestion* REFER SECTION 2 *Additional Information* 

RTECS : No data available

# 11.2 Components

Niacin (Nicotinic acid) Acute oral toxicity Rat LD50: >5000 mg/kg;24h(ECHA) Acute dermal toxicity Rat LD50: >2000 mg/kg;24h(ECHA) Acute inhalation toxicity Rat LD50: >3.8 mg/L; 4h(ECHA) Skin irritation Rabbit: Does not cause irritation to skin(ECHA) Eye irritation Rabbit: May cause slight to mild irritation to eyes(ECHA) Sensitisation Nonsensitizer(ECHA) **Repeated Exposures** No significant effect seen on rats(ECHA) Germ cell mutagenicity Genotoxicity invitro Chinese hamster Ovary (CHO) Result: Negative(ECHA) Genotoxicity invivo Mammalian Bone Marrow Chromosome Aberration Test Result: Negative(ECHA)

Mutagenicity (mammal cell test): micronucleus No data available Carcinogenicity No data available Reproductive toxicity No data available Teratogenicity Rats, 20 d Result: Negative(ECHA)

#### **Additional information**

**RTECS QT0525000** 

#### PABA (Para aminobenzoic acid)(4-aminobenzoic acid)

Acute oral toxicity Rat LD50 : 6gm/kg(RTECS) Mouse LD50 : 2850mg/kg Rabbit LD50 : 1830 mg/kg Dog LD50 : 1000 mg/kg

Acute inhalation toxicity No data available Acute dermal toxicity No data available Skin irritation No data available Eye irritation No data available Sensitisation STOT :May cause respiratory irritation Genetic toxicity(in-vitro) Ames Test Negative (National Toxicological Program) Germ cell mutagenicity Mouse Causes DNA damage *Carcinogencity* IARC Group 3 (It is not established as carcinogen to humans) *Toxicity to Reproduction* No data available *Teratogenicity* No data available

#### Additional information:

RTECS: No data available

#### **Boric Acid**

Acute Toxicity Rat oral LD50 : 2660 mg/kg Rabbit dermal LD50 : 2000 mg/kg Mouse Oral: LD50 = 3450 mg/kg.

#### Additional information

RTECS : ED4550000 Specific concentration limits (SCL): >5.5% Boric acid is included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH) **Copper sulphate** Acute oral toxicity Rat LD50: 482 mg/kg Acute dermal toxicity Rat LD50:>2000 mg/kg Skin irritation Rabbit Result: Non irritant Eye irritation Rabbit Result: Highly irritating Skin sensitization Guinea pig Result: Non sensitizing *Genetic toxicity(in-vitro)* Ames test Result: Negative (As Per OECD Test Guideline 471) Genetic toxicity(in-vivo) Mouse Micronucleus assay **Result: Negative** Carcinogenicity Rat Result: Negative Toxicity to Reproduction No data available

*Teratogenicity* No data available

#### Additional information:

RTECS: GL8800000

## Potassium iodide

Acute oral toxicity Rat LD50:3118mg/kg; (As Per OECD Test Guideline 401) Acute intravenous toxicity Rat LD50 : 285mg/kg Skin irritation No data available Eye irritation No data available Sensitisation No data available Genetic toxicity(in-vitro) Mammalian cell micronucleus test **Result:Negative** Genetic toxicity(in-vivo) Rat Chromosome aberration assay **Result:Negative** Carcinogenicity Rat Not carcinogenic(As per OECD guideline 453) Teratogenicity Rat No developmental toxicity/teratogenicity (ECHA)

#### Additional information:

RTECS: TT2975000

#### Ferric chloride

Acute oral toxicity Rat LD50: 3,200mg/kg (As per OECD Guideline 401) Acute inhalation toxicity No data available Acute dermal toxicity Rabbit LD50: > 559mg/kg (As per EPA OPP 81-2) Skin irritation Rabbit Result: Non Irritant(As per OECD Guideline 404) Eye irritation Rabbit Result: Irreversible effects on the eye (ECHA) Sensitisation Guinea pig Result: Not sensitising Genetic toxicity(in-vitro) Mammalian cell gene mutation assay Mouse lymphoma cells Result :Negative Genetic toxicity(in-vivo) Mouse Result: Positive (ECHA) Carcinogenicity No data available Toxicity to Reproduction No data available Teratogenicity No data available

#### Additional information:

RTECS: LJ9100000

#### Manganese sulphate

Acute oral toxicity Rat LD50 :2,150 mg/kg (As per IUCLID) Acute Dermal Toxicity Rat LD50: Not determined. Acute Inhalation Toxicity Rat LC50 : > 4.45 mg/l (As per OECD Test Guideline 403) Additional Information RTECS: OP1050000

Zinc Sulphate, Heptahydrate Acute Oral Toxicity Rat LD50: 1,260 mg/kg (As Per RTECS) Additional information RTECS: ZH5300000 Calcium chloride Acute oral toxicity Rat LD50 : 1,000 mg/kg (As per IUCLID) Acute dermal toxicity Rat LD50 : 2,630 mg/kg (As per IUCLID) Skin irritation Rabbit **Result : No irritation** (As per OECD Test Guideline 404) Eye irritation Rabbit **Result: Eye irritation** 

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(As per OECD Test Guideline 405) Causes serious eye irritation. Additional Information RTECS: EV9800000

#### 12 Ecological Information

#### 12.1 Toxicity

No data available **Components Niacin(Nicotinic acid)**  *Toxicity to fish* Brown trout (Salmo Trutta Fario)LC50: 520 mg/l; 96 h(ECHA) *Toxicity to daphnia and other aquatic invertebrates* Daphnia magna EC50: 77 mg /L; 48 h(ECHA) *Toxicity to algae* Desmodesmus subspicatus Scenedesmus subspicatus) EC50: 89.93 mg/L 72 h(ECHA) *Toxicity to microorganisms* Pseudomonas putida EC50: 120 mg /L; 16 h(ECHA) Pseudomonas putida EC10: 88 mg /L; 16 h(ECHA)

#### Components

#### PABA (Para aminobenzoic acid) (4-aminobenzoic acid)

Toxicity to daphnia and other aquatic invertebrates Daphnia magna (Water flea) EC50 : 546 mg/l; 24 h. Toxicity to Bacteria Microtox test Phytobacterium phosphoreum EC50: 27.4 mg/l; 30 mins. **Component Boric Acid** Toxicity to fish Gambusia affinis LC50 :5600 mg/l Rainbow trout LC50:150mg B/L;24d Goldfish LC50:46mg; 7d Toxicity to daphnia and other aquatic invertebrates Daphnia EC50 :115 mg/l

# Component:

**Copper sulphate** *Toxicity to fish* Oncorhynchus mykiss Flow through test LC50: 200 µg/L;96h *Toxicity to aquatic invertebrates* Daphnia magna(Water flea) Static test LC50: 7 µg/L;48h *Toxicity to aquatic alga and cyanobacteria* 

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Phaeodactylum tricornutum Static test EC10: 2.9 µg/L;72h *Toxicity to terrestrial arthropods* Folsomia fimetaria EC10 :688mg/kg;21d

#### **Components:**

Potassium iodide Toxicity to fish Oncorhynchus mykiss(Rainbow trout)Static test :LC50:3780 mg/L;96h (As per OECD Guideline 203) Toxicity to aquatic invertebrates Daphnia magna(Water flea)Static test:EC50: 10.6mg/L;24h (As per OECD Guideline 202) Toxicity to aquatic algae and cyanobacteria Scenedesmus quadricauda(green algae)Static test:Toxicity threshold: 2370mh/L;7d

Components: Ferric chloride Toxicity to microorganisms Activated sludge IC50: ca. 170 mg/L (ECHA) Components Manganese sulphate Toxicity to Fish Onchorhynchus mykiss (Rainbow trout) LC50 :14.5 mg/l; 96h. Pimephales promelas (fathead minnow) LC50 : 30.6 mg/l; 96 h. Toxicity to daphnia and other aquatic invertebrates Daphnia magna (Water flea) EC50 : 8.3 mg/l; 48 h. Acute Toxicity to Aquatic Plants Desmodesmus subspicatus (algae) EC50 61 mg/l; 72 h (As per OECD Test Guideline 201)

Components Zinc Sulphate, Heptahydrate Toxicity to fish Oncorhynchus mykiss (rainbow trout)LC50: 0.1 mg/l; 96 h (As Per ECOTOX Database) Toxicity to algae Scenedesmus quadricuada (green algae)IC50: 0.52 mg/l; 5 d (As Per IUCLID)

#### Components

**Calcium chloride**  *Toxicity to fish* Lepomis macrochirus (Bluegill sunfish) LC50 : 10,650 mg/l; 96 h (As per IUCLID) *Toxicity to daphnia and other aquatic invertebrates* Daphnia magna (Water flea) EC50 : 144 mg/l; 48 h (As per IUCLID) *Toxicity to algae* 

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AlgaeIC50 : 3,130 mg/l; 120 h (As per IUCLID)

12.2	No data available			
12.3				
12.5				
12.4	•			
12.5	No data available PBT and vPvB assessment			
12.5	This substance or mixture contains no components considered to be persistent, bioaccumulating nor			
	toxic (PBT) at levels of 0.1% or higher.			
12.6	Other adverse effects			
	No data available			
13	Disposal Considerations			
13.1	Waste treatments methods			
	Product			
	Offer surplus and non- recyclable solutions to a licenced company. Contact a licenced professional			
13.2	waste disposal service to dispose off this material. Contaminated packaging			
13.2	Dispose of as unused product.			
14	Transport Information			
14 14.1	Transport Information UN-No			
	•			
	UN-No ADNR : ADR : IATA_C : IATA_P : IMDG : RID : UN proper shipping name			
14.1	UN-No ADNR : ADR : IATA_C : IATA_P : IMDG : RID : UN proper shipping name ADNR : Not dangerous goods			
14.1	UN-No         ADNR : ADR : IATA_C : IATA_P : IMDG : RID :         UN proper shipping name         ADNR : Not dangerous goods         ADR : Not dangerous goods			
14.1	UN-No         ADNR : ADR : IATA_C : IATA_P : IMDG : RID :         UN proper shipping name         ADNR : Not dangerous goods         ADR : Not dangerous goods         IATA_C : Not dangerous goods			
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14.1 14.2	UN-NoADNR : ADR : IATA_C : IATA_P : IMDG : RID :UN proper shipping nameADNR: Not dangerous goodsADR: Not dangerous goodsIATA_C: Not dangerous goodsIATA_P: Not dangerous goodsIMDG: Not dangerous goodsRID: Not dangerous goods			
14.1	UN-No         ADNR : ADR : IATA_C : IATA_P : IMDG : RID :         UN proper shipping name         ADNR : Not dangerous goods         ADR : Not dangerous goods         IATA_C : Not dangerous goods         IATA_P : Not dangerous goods         IMDG : Not dangerous goods         RID : Not dangerous goods         Transport hazard class(es)			
14.1 14.2	UN-NoADNR : ADR : IATA_C : IATA_P : IMDG : RID :UN proper shipping nameADNR: Not dangerous goodsADR: Not dangerous goodsIATA_C: Not dangerous goodsIATA_P: Not dangerous goodsIMDG: Not dangerous goodsRID: Not dangerous goods			
14.1 14.2	UN-No         ADNR : ADR : IATA_C : IATA_P : IMDG : RID :         UN proper shipping name         ADNR       : Not dangerous goods         ADR       : Not dangerous goods         IATA_C       : Not dangerous goods         IATA_P       : Not dangerous goods         IMDG       : Not dangerous goods         RID       : Not dangerous goods         Transport hazard class(es)         ADNR : - ADR : - IATA_C : - IATA_P : - IMDG : - RID : -			
14.1 14.2 14.3	UN-NoADNR : ADR : IATA_C : IATA_P : IMDG : RID :UN proper shipping nameADNR : Not dangerous goodsADR : Not dangerous goodsIATA_C : Not dangerous goodsIATA_P : Not dangerous goodsIMDG : Not dangerous goodsRID : Not dangerous goodsTransport hazard class(es)ADNR : - ADR : - IATA_C : - IATA_P : - IMDG : - RID : -			

ADNR : No ADR : No IMDG : Marine Pollutant No IATA\_C : No IATA\_P : No RID : No

**14.6** Special precautions for use No data available

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#### 15 Regulatory Information

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

# **15.1** Safety health and environment regulations/legislation specific for the substance or mixture

No data available

**15.2 Chemical Safety Assessment** No data available

#### 16 Other information

H290	May be corrosive to metals
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H360	May damage fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
Acute Tox.oral 4	Acute toxicity, oral, Category 4
Aquatic Chronic 1	Hazardous to the aquatic environment, long term hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, long term hazard, Category 2
Eye Dam. 1	Serious eye damage or eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage or eye irritation, Category 2A
Met. Corr. 1	Corrosive to metals, Category 1
Repr.Tox. 1A, 1B	Reproductive toxicity, Category 1A, 1B
Skin Irrit. 2	Skin corrosion or irritation, Category 2
Skin Sens. 1	Sensitisation, Skin, Category 1
STOT RE 2	Specific target organ toxicity, repeated exposure, Category 2
R22	Harmful if swallowed.
R36/38	Irritating to eyes and skin.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse. Effects
	in the aquatic environment.
Ν	Dangerous for the environment
Xi	Irritant
Xn	Harmful

#### **Further Information**

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