

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

1.1	Product Identifiers			
	Product Number	HTP002		
	Product Name	HiPer <sup>®</sup> Protein Silver Staining Teaching Kit		
	<b>REACH Registration Number</b>	Reach registration number is not available for this mixture. The annual		
		tonnage does not require a REACH regist	ration.	
1.2	Relevant identified uses of	the substance or mixture and uses advise	d against	
1.2.1	Relevant identified uses	Laboratory chemicals, Manufacture of sub	ostances	
	.3 Details of the supplier of the safety data sheet			
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	••	-	al Area, Thane(W), - 400 604, India	
1.3	Produced by	HiMedia Laboratories Private Limited	al Area, Thane(W), - 400 604, India Fax No. :+91-22-61471920	
1.3	Produced by Reg Address	HiMedia Laboratories Private Limited C-40, Road No.21Y, MIDC, Wagle Industri		
1.3 1.4	Produced by Reg Address Tel. No.	HiMedia Laboratories Private Limited C-40, Road No.21Y, MIDC, Wagle Industri +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]*

Acute toxicity, Oral, (Category 4), H302 Acute toxicity, Inhaled, (Category 4), H332 Skin corrosion or irritation, (Category 2), H315 Serious eye damage or eye irritation, (Category 2A), H319 Acute toxicity, Inhaled, (Category 3), H331 Specific target organ toxicity, single exposure, Respiratory tract irritation, (Category 3), H335 Germ cell mutagenicity, (Category 1A), H340 Carcinogenicity, (Category 1A), H350 Reproductive toxicity, (Category 2), H361f Specific target organ toxicity, single exposure, (Category 1), H370 Specific target organ toxicity, repeated exposure, (Category 1), H372 Hazardous to the aquatic environment, acute hazard, (Category 1), H400 Hazardous to the aquatic environment, long term hazard, (Category 1), H410

## 2.2 Label elements

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



Pictogram Signal word Danger

Hazard Statement(s)

Page **1** of **10** 

H302+H332Harm/I if swallowed or if inhaledH315Causer strinitationH316Causer strinitationH317Cause strinitationH331Toxic if inhaledH332May causer expiratory irritationH340May cause genetic defectsH350May causer experiatory irritationH361Suspect of damaging fertilityH370Causes amage to organsH370Causes amage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH410Very toxic to aquatic life with long lasting effectsPrecautionaryVery toxic to aquatic life with long lasting effectsP201Valid breathing dust/fume/gas/mist/vapours/spray.P202Very toxic to aquatic life with long lasting effectsP203Very toxic to aquatic life with long lasting effectsP204Very toxic to aquatic life with long lasting effectsP205Very toxic to aquatic life with long lasting effectsP201Very toxic to aquatic life with long lasting effectsP202Strinitation occurs: get medical advice/strention/face protection.P304+P340+P312FI NHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.P305+P351+P33BFI NHYES: Rinse cautiously with water for several minute. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.P322+P313FI SKIN irritation occurs: Get medical advice/attention.P332+P313Fi SKIN irritation persists: Get medical advice/attention.<				
H319 Causes serious eye irritation   H331 Toxic if inhaled   H331 Toxic if inhaled   H335 May cause respiratory irritation   H340 May cause genetic defects   H350 May cause cancer   H361f Suspected of damaging fertility   H370 Causes damage to organs   H372 Causes damage to organs through prolonged or repeated exposure   H400 Very toxic to aquatic life   H410 Very toxic to aquatic life with long lasting effects   Precautionary Eterret Obtain special instructions before use.   P201 Vavid breathing dust/fume/gas/mist/vapours/spray.   P280 Avoid breathing dust/fume/gas/mist/vapours/spray.   P280 Very toxic call ap POISON CENTER/doctor if you feel unwell.   P304+P340+P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.   P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minute. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.   P302 + P352 IF ON SKIN: wash with plenty of soap and water.   P323 + P313 IF sxIN irritation occurs: Get medical advice/attention.	H302+H332	Harmful	if swallowed or if inhaled	
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	P337 + P313		IF eye irritation persists: Get medical advice/attention.	

# 3 Composition/Information On Ingredients

2.3

Component		Classification	Concentration
Acrylamide, For Molecular Biology			
CAS No. :	79-06-1	As Per EC Regulation 1272/2008	>=20 - <=30%
EC No. :	201-173-7	Acute Tox.oral. 3; Acute Tox. Oral,	
Molecular Formula :	C₃H₅NO	dermal, inhal, 4; Skin Irrit. 2; Skin Sens.	
Molecular Weight :	71.08	1; Eye Irrit. 2A; Mut. 1A, 1B; Carc. 1B;	

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Repr. 2; STOT RE 1 H301; H312+H332;	
H315; H317; H319; H340; H350; H361f;	
H372	

Component		Classification	Concentration
N,N'-Methylenebis(acrylamide), For M		Aolecular Biology	
CAS No. :	110-26-9	As Per EC Regulation 1272/2008	>=0.1 - <=5%
EC No. :	203-750-9	Acute Tox.oral 4; Acute Tox.inhal. 4	
Molecular Formula :	$C_7H_{10}N_2O_2$	H302; H332	
Molecular Weight :	154.17		

Component		Classification	Concentration
Lauryl sulphate sodium salt, For Molecu		ılar Biology	
CAS No. :	151-21-3	As Per EC Regulation 1272/2008	>=0.5 - <=2%
EC No. :	205-788-1	Flam. Sol. 1; Acute Tox. oral, inhal, 4;	
Molecular Formula :	$C_{12}H_{25}NaO_4S$	Skin Irrit. 2; Eye Dam. 1; STOT SE 3;	
Molecular Weight :	288.38	Aquatic Chronic 3 H228; H302+H332;	
		H315; H318; H335; H412	

Component		Classification	Concentration
Carbinol, For Molecu	lar Biology		
CAS No. :	67-56-1	As Per EC Regulation 1272/2008	>=40 - <=50%
EC No. :	200-659-6	Flam. Liq. 2; Acute Tox.oral. 3; Acute	
Index-No :	603-001-00-X	Tox. dermal. 3; Acute Tox. inhal. 3; STOT	
Molecular Formula :	CH₃OH	SE 1 H225; H301; H311; H331; H370	
Molecular Weight :	32.04		

Component		Classification	Concentration
Acetic acid, For Mole	Acetic acid, For Molecular Biology		
CAS No. :	64-19-7	As Per EC Regulation 1272/2008	>=5 - <=15%
EC No. :	200-580-7	Flam. Liq. 3; Skin Corr. 1A H226; H314	
Index-No :	607-002-00-6		
Molecular Formula :	$C_2H_4O_2$		
Molecular Weight :	60.05		
-			

Component		Classification	Concentration
TEMED For Molecular Biology			
CAS No. :	110-18-9	As Per EC Regulation 1272/2008	>=100 -
EC No. :	203-744-6	Flam. Liq. 2; Acute Tox.oral 4; Skin Corr.	
Molecular Formula :	$C_6H_{16}N_2$	1A; Acute Tox.inhal. 4 H225; H302;	
Molecular Weight :	116.20	H314; H332	

Component	Classification	Concentration
Silver nitrate, For Molecular Biology		

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		7761-88-8	As Per EC Regulation 1272/2008	>=100 -	
		231-853-9	Ox. Sol. 2; Met. Corr. 1; Skin Corr. 1B;		
		AgNO₃ 169.87	Aquatic Acute 1; Aquatic Chronic 1 H272; H290; H314; H410		
		109.87	1272, 1250, 1314, 1410		
	First Aid Measures				
.1	Description of first aid General advice	measures			
	Consult a physician. Sho If inhaled	ow this safety	data sheet to the doctor in attendance.		
	•	rson into fresh	n air. If not breathing, give artificial respiration	n. Consult a	
	physician.				
	In case of skin contact Wash off with soap and	plenty of wat	er. Consult a physician.		
	In case of eye contact				
	-	plenty of wat	er for at least 15 minutes. Consult a physician		
	<i>If swallowed</i> Never give anything by	mouth to an u	inconscious person. Rinse mouth with water.	Consult a	
	physician.				
4.2			ts, both acute and delayed		
	The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.				
			ention and special treatment needed		
4.3	Indication of immediat Treat symptomatically.	e medical atte			
	Treat symptomatically.				
4.3 5 5.1	Treat symptomatically. Fire Fighting Measures Extinguishing media				
5	Treat symptomatically. Fire Fighting Measures Extinguishing media Suitable extinguishing	media			
5	Treat symptomatically. Fire Fighting Measures Extinguishing media Suitable extinguishing	<i>media</i> bl-resistant foa	am, dry chemical or carbon dioxide.		
5	Treat symptomatically. Fire Fighting Measures Extinguishing media Suitable extinguishing in Use water spray, alcoho Unsuitable extinguishin No data available.	<b>media</b> bl-resistant foa <b>ng media</b>	am, dry chemical or carbon dioxide.		
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- **6.1 Personal precautions, protective equipment and emergency procedures** Use personnel protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.
- 6.2 Environmental precautions

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No special environmental precautions required.

#### 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. For precautions see section 2.2. Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non Combustible Liquids

**Recommended Storage Temperature :** Store at -20°C

#### 7.3 Specific end uses

7.2

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 89/686/EEC and the standard EN 374 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 let product enter drains.

No data available

Skin corrosion/irritation

9	Physical and chemical properties	
9.1	Information on basic physical and chemical prope	
	Odour	No data available
	Odour Threshold	No data available
	pH	No data available
	Melting/freezing point	No data available
	Initial boiling point and boiling range	No data available
	Flash point	No data available
	Evaporation rate	No data available
	Flammability (Solid, gas)	No data available
	Vapour pressure	No data available
	Relative density	No data available
	Water Solubility	No data available
	Autoignition Temperature	No data available
	Decomposition Temperature	No data available
	Viscosity	No data available
	Explosive properties	No data available
	Oxidizing properties	No data available
	oxidizing properties	
	Thermal decomposition	No data available
9.2	Other safety information	
	No data available	
10		
10	Stability and Reactivity	
10.1	Reactivity	
	No data available	
10.2	Chemical stability	
	Stable under recommended storage conditions.	
10.3	Possibility of hazardous reactions	
	No data available	
10.4	Conditions to avoid	
	No data available	
10.5	Incompatible materials	
	Oxidizing agents	
10.6	Hazardous decomposition products	
	In the event of fire. Refer section 5	
11		
11.1	Toxicological Information Information on toxicological effects	

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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 Additional Information RTECS : Not Applicable

### 12 Ecological Information

- **12.1 Toxicity** No data available
- **12.2** Persistence and degradability No data available
- **12.3 Bioaccumulative potential** No data available
- 12.4 Mobility in soil
- No data available 12.5 PBT and vPvB ass
- 12.5 PBT and vPvB assessment No data available
- 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 disposal company.

**13.2** Contaminated packaging Dispose of as unused product.

## 14 Transport Information

14.1 UN-No

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.2	UN proper shipping name ADNR : Not dangerous goods		
		dangerous goods	
	IATA_C : Not	dangerous goods	
	IATA_P : Not	dangerous goods	
	IMDG : Not dangerous goods   RID : Not dangerous goods		
	ADNR: - ADR: - IATA_C	C : - IATA_P : - IMDG : - RID : -	
.4	Packaging group		
		IATA_C : IATA_P : IMDG : RID :	
5	Environmental hazards		
	ADNR : No ADR : No IMDG : Marine pollutant : no IATA_C : No IATA_P : No RID : No		
6	Special precautions for use		
	No data available		
	<b>Regulatory Information</b>		
1	Safety health and environment regulations/legislation specific for the substance or mixture		
	mixture		
	mixture No data available		
2	No data available	ent	
2		ent	
.2	No data available Chemical Safety Assessme	ent	
2	No data available Chemical Safety Assessme	ent	
2	No data available Chemical Safety Assessme No data available	ent Highly flammable liquid and vapour	
2	No data available Chemical Safety Assessme No data available Other information		
2	No data available Chemical Safety Assessme No data available Other information H225	Highly flammable liquid and vapour	
2	No data available Chemical Safety Assessme No data available Other information H225 H226	Highly flammable liquid and vapour Flammable liquid and vapour	
2	No data available <b>Chemical Safety Assessme</b> No data available <b>Other information</b> H225 H226 H228	Highly flammable liquid and vapour Flammable liquid and vapour Flammable solid	
2	No data available <b>Chemical Safety Assessme</b> No data available <b>Other information</b> H225 H226 H228 H272	Highly flammable liquid and vapour Flammable liquid and vapour Flammable solid May intensify fire; oxidizer	
2	No data available <b>Chemical Safety Assessme</b> No data available <b>Other information</b> H225 H226 H228 H272 H290	Highly flammable liquid and vapour Flammable liquid and vapour Flammable solid May intensify fire; oxidizer May be corrosive to metals	
2	No data available <b>Chemical Safety Assessme</b> No data available <b>Other information</b> H225 H226 H228 H272 H290 H301	Highly flammable liquid and vapour Flammable liquid and vapour Flammable solid May intensify fire; oxidizer May be corrosive to metals Toxic if swallowed	
	No data available <b>Chemical Safety Assessme</b> No data available <b>Other information</b> H225 H226 H228 H272 H290 H301 H302	Highly flammable liquid and vapour Flammable liquid and vapour Flammable solid May intensify fire; oxidizer May be corrosive to metals Toxic if swallowed Harmful if swallowed	
	No data available <b>Chemical Safety Assessme</b> No data available <b>Other information</b> H225 H226 H228 H272 H290 H301 H302 H302+H332	Highly flammable liquid and vapour Flammable liquid and vapour Flammable solid May intensify fire; oxidizer May be corrosive to metals Toxic if swallowed Harmful if swallowed Harmful if swallowed or if inhaled	
	No data available <b>Chemical Safety Assessme</b> No data available <b>Other information</b> H225 H226 H228 H272 H290 H301 H302 H302+H332 H311	Highly flammable liquid and vapour Flammable liquid and vapour Flammable solid May intensify fire; oxidizer May be corrosive to metals Toxic if swallowed Harmful if swallowed Harmful if swallowed or if inhaled Toxic in contact with skin	
	No data available <b>Chemical Safety Assessme</b> No data available <b>Other information</b> H225 H226 H228 H272 H290 H301 H302 H302+H332 H311 H312+H332	Highly flammable liquid and vapour Flammable liquid and vapour Flammable solid May intensify fire; oxidizer May be corrosive to metals Toxic if swallowed Harmful if swallowed Harmful if swallowed or if inhaled Toxic in contact with skin Harmful in contact with skin or if inhaled	
	No data available <b>Chemical Safety Assessme</b> No data available <b>Other information</b> H225 H226 H228 H272 H290 H301 H302 H302+H332 H311 H312+H332 H314	Highly flammable liquid and vapour Flammable liquid and vapour Flammable solid May intensify fire; oxidizer May be corrosive to metals Toxic if swallowed Harmful if swallowed Harmful if swallowed or if inhaled Toxic in contact with skin Harmful in contact with skin or if inhaled Causes severe skin burns and eye damage Causes skin irritation May cause an allergic skin reaction	
	No data available <b>Chemical Safety Assessme</b> No data available <b>Other information</b> H225 H226 H228 H272 H290 H301 H302 H302+H332 H311 H312+H332 H314 H315	Highly flammable liquid and vapour Flammable liquid and vapour Flammable solid May intensify fire; oxidizer May be corrosive to metals Toxic if swallowed Harmful if swallowed Harmful if swallowed or if inhaled Toxic in contact with skin Harmful in contact with skin or if inhaled Causes severe skin burns and eye damage Causes skin irritation	
	No data available <b>Chemical Safety Assessme</b> No data available <b>Other information</b> H225 H226 H228 H272 H290 H301 H302 H302+H332 H311 H312+H332 H314 H315 H317	Highly flammable liquid and vapour Flammable liquid and vapour Flammable solid May intensify fire; oxidizer May be corrosive to metals Toxic if swallowed Harmful if swallowed Harmful if swallowed or if inhaled Toxic in contact with skin Harmful in contact with skin or if inhaled Causes severe skin burns and eye damage Causes skin irritation May cause an allergic skin reaction	
	No data available <b>Chemical Safety Assessme</b> No data available <b>Other information</b> H225 H226 H228 H272 H290 H301 H302 H302+H332 H311 H312+H332 H314 H315 H317 H318	Highly flammable liquid and vapour Flammable liquid and vapour Flammable solid May intensify fire; oxidizer May be corrosive to metals Toxic if swallowed Harmful if swallowed Harmful if swallowed or if inhaled Toxic in contact with skin Harmful in contact with skin or if inhaled Causes severe skin burns and eye damage Causes skin irritation May cause an allergic skin reaction Causes serious eye damage	
	No data available <b>Chemical Safety Assessme</b> No data available <b>Other information</b> H225 H226 H228 H272 H290 H301 H302 H302+H332 H311 H312+H332 H314 H315 H317 H318 H319	Highly flammable liquid and vapour Flammable liquid and vapour Flammable solid May intensify fire; oxidizer May be corrosive to metals Toxic if swallowed Harmful if swallowed Harmful if swallowed or if inhaled Toxic in contact with skin Harmful in contact with skin or if inhaled Causes severe skin burns and eye damage Causes skin irritation May cause an allergic skin reaction Causes serious eye damage Causes serious eye irritation	
.2	No data available <b>Chemical Safety Assessme</b> No data available <b>Other information</b> H225 H226 H228 H272 H290 H301 H302 H302+H332 H311 H312+H332 H314 H315 H317 H318 H319 H331	Highly flammable liquid and vapour Flammable liquid and vapour Flammable solid May intensify fire; oxidizer May be corrosive to metals Toxic if swallowed Harmful if swallowed Harmful if swallowed or if inhaled Toxic in contact with skin Harmful in contact with skin or if inhaled Causes severe skin burns and eye damage Causes skin irritation May cause an allergic skin reaction Causes serious eye damage Causes serious eye damage Causes serious eye irritation Toxic if inhaled	
	No data available <b>Chemical Safety Assessme</b> No data available <b>Other information</b> H225 H226 H228 H272 H290 H301 H302 H302+H332 H311 H312+H332 H314 H315 H317 H318 H319 H331 H332	Highly flammable liquid and vapour Flammable liquid and vapour Flammable solid May intensify fire; oxidizer May be corrosive to metals Toxic if swallowed Harmful if swallowed Harmful if swallowed or if inhaled Toxic in contact with skin Harmful in contact with skin or if inhaled Causes severe skin burns and eye damage Causes skin irritation May cause an allergic skin reaction Causes serious eye damage Causes serious eye irritation Toxic if inhaled Harmful if inhaled	

H361f	Suspected of damaging fertility
H370	Causes damage to organs
H372	Causes damage to organs through prolonged or repeated exposure
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
Acute Tox. dermal. 3	Acute toxicity, dermal, Category 3
Acute Tox. inhal. 3	Acute toxicity, inhaled, Category 3
Acute Tox. Oral, dermal,	Harmful if swallowed, in contact with skin or if inhaled
inhal, 4	
Acute Tox. oral, inhal, 4	Harmful if swallowed or if inhaled
Acute Tox.inhal. 4	Acute toxicity, inhaled, Category 4
Acute Tox.oral 4	Acute toxicity, oral, Category 4
Acute Tox.oral. 3	Acute toxicity, oral, Category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, long term hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, long term hazard, Category 3
Carc. 1B	Carcinogenicity, Category 1B
Eye Dam. 1	Serious eye damage or eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage or eye irritation, Category 2A
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Flam. Sol. 1	Flammable solids, Category 1
Met. Corr. 1	Corrosive to metals, Category 1
Mut. 1A, 1B	Germ cell mutagenicity, Category 1A, 1B
Ox. Sol. 2	Oxidising solids, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1A	Skin corrosion or irritation, Category 1A
Skin Corr. 1B	Skin corrosion or irritation, Category 1B
Skin Irrit. 2	Skin corrosion or irritation, Category 2
Skin Sens. 1	Sensitisation, Skin, Category 1
STOT RE 1	Specific target organ toxicity, repeated exposure, Category 1
STOT SE 1	Specific target organ toxicity, single exposure, Category 1
STOT SE 3	Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3

#### **Further Information**

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