

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/25/2020

Reviewed on 02/17/2020

## 1 Identification

· **Product identifier**

· **Trade name:** Generation 4 Catalyst

· **Article number:** Polyamine Formulation

· **Details of the supplier of the safety data sheet · Manufacturer/Supplier:**

Axis Outdoor Products

P.O. Box 31

Waring, TX

78074

General Telephone: 210-845-7456

· **Information department:** Product safety department.

· **Emergency telephone number:** Domestic: 210-845-7456 International: +01-210-845-7456

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Trade name: **Generation 4 Catalyst**

## 2 Hazard(s) identification

### · Classification of the substance or mixture



GHS08 Health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

### · Label elements

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms** GHS05, GHS07, GHS08

· **Signal word** Danger

### · Hazard-determining components of labeling:

4-nonylphenol, branched

Polyoxypropylenediamine

2-piperazin-1-ylethylamine

Synthetic Amorphous/fumed/pyrogenic silica

### · Hazard statements

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child.

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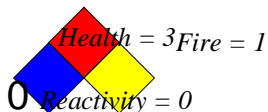
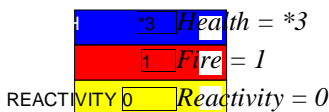
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*May cause respiratory irritation.**May be fatal if swallowed and enters airways.***Precautionary statements***Obtain special instructions before use.**Do not handle until all safety precautions have been read and understood.**Do not breathe dusts or mists.**Wash thoroughly after handling.**Do not eat, drink or smoke when using this product.**Use only outdoors or in a well-ventilated area.**Contaminated work clothing must not be allowed out of the workplace.**Wear protective gloves/protective clothing/eye protection/face protection.**If swallowed: Immediately call a poison center/doctor.**Specific treatment (see on this label).**If swallowed: Rinse mouth. Do NOT induce vomiting.**If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.**IF INHALED: Remove person to fresh air and keep comfortable for breathing.**If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.**Continue rinsing.**IF exposed or concerned: Get medical advice/attention.**If skin irritation or rash occurs: Get medical advice/attention.**Wash contaminated clothing before reuse.**Store in a well-ventilated place. Keep container tightly closed.**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.***Classification system:****NFPA ratings (scale 0 - 4)****HMIS-ratings (scale 0 - 4)****Other hazards***Additional Health Hazards: Corrosive to the eyes, skin, and respiratory tract. May be toxic if absorbed through skin.**Inhalation: May cause severe eye, skin, and respiratory tract burns. May cause nose, throat, and lung irritation.**Inhalation of vapors and/or aerosols in high concentration may cause irritation of the respiratory system.**Eye Contact: Causes eye burns. May cause blindness. Severe eye irritation.**Skin contact: Causes skin burns.**Ingestion: Causes Severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.***Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

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### 3 Composition/information on ingredients

· **Chemical characterization:** Mixtures

· **Dangerous components:**

84852-15-3	4-nonylphenol, branched	50-100%
9046-10-0	Polyoxypropylenediamine	25-50%
140-31-8	2-piperazin-1-ylethylamine	2.5-10%
7631-86-9	Synthetic Amorphous/fumed/pyrogenic silica	≤2.5%

· **Description:** The exact percentage (concentration) of composition has been withheld as a trade secret.

· **Additional Information** Chemical Family: Aliphatic Amine Mixture

### 4 First-aid measures

· **Description of first aid measures** ·

**General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Initiate and maintain gentle and continuous irrigation with water until the patient receives medical care. If medical care is not promptly available, continue to irrigate (use soap if available) for one hour. Cover the wound with sterile dressing. Take off contaminated clothing and shoes immediately. Do not reuse clothing until thoroughly cleaned.

**NOTE TO PHYSICIANS:** Application of corticosteroid cream has been effective in treating skin irritation.

· **After eye contact:**

Hold eyelids apart, initiate and maintain gentle and continuous irrigation of the eye with water until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Rinse immediately with plenty of water also under the eyelids for at least 20 minutes.

· **After swallowing:**

Never give anything by mouth to an unconscious person. Do not induce vomiting. Give one glass of water unless victim is drowsy, convulsing, or unconscious. Seek medical attention immediately.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed** No further relevant information available. ·

**Indication of any immediate medical attention and special treatment needed** No further relevant information available.

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## 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

*CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*

· **For safety reasons unsuitable extinguishing agents:**

*Do not use water in a jet. Product will float. Water or fog may cause frothing which can be violent, especially if sprayed into containers of hot or burning liquid.*

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**Special hazards arising from the substance or mixture**

*Material will not burn unless preheated. Delayed lung damage (pulmonary edema) can be experienced after exposure to combustion products, sometimes hours after the exposure. May generate ammonia gas, toxic nitrogen oxide gasses and other potentially hazardous nitrogen-containing compounds may be released upon combustion.*

*Use of water to fight fire may result in the formation of very toxic aqueous solutions. Incomplete combustion may form carbon monoxide. Downwind personnel must be evacuated. Burning produces obnoxious and toxic fumes.*

*Cool fire exposed containers with water.* ·

**Advice for firefighters · Protective equipment:**

*Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves, and rubber boots) including a positive pressure NIOSH approved self-contained breathing apparatus.*

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## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Corrosive. Use self-contained breathing apparatus and chemically protective clothing. Evacuate personnel to safe areas. Use cautious judgement when cleaning up large spills. Shut off leaks, if possible without personal risk.

- **Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

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

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

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

- **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.

- **Protective Action Criteria for Chemicals**

- **PAC-1:**

84852-15-3	4-nonylphenol, branched	3.9 mg/m <sup>3</sup>
9046-10-0	Polyoxypropylenediamine	4.8 mg/m <sup>3</sup>
140-31-8	2-piperazin-1-ylethylamine	6.4 mg/m <sup>3</sup>
7631-86-9	Synthetic Amorphous/fumed/pyrogenic silica	18 mg/m <sup>3</sup>

- **PAC-2:**

- **PAC-3:**

84852-15-3	4-nonylphenol, branched	260 mg/m <sup>3</sup>
9046-10-0	Polyoxypropylenediamine	320 mg/m <sup>3</sup>
140-31-8	2-piperazin-1-ylethylamine	420 mg/m <sup>3</sup>
84852-15-3	4-nonylphenol, branched	43 mg/m <sup>3</sup>
9046-10-0	Polyoxypropylenediamine	53 mg/m <sup>3</sup>
140-31-8	2-piperazin-1-ylethylamine	71 mg/m <sup>3</sup>
7631-86-9	Synthetic Amorphous/fumed/pyrogenic silica	740 mg/m <sup>3</sup>

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7631-86-9 Synthetic Amorphous/fumed/pyrogenic silica

4,500 mg/m<sup>3</sup>

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### 7 Handling and storage

- **Handling:**

- **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

DANGER: Corrosive

Avoid contact with skin and eyes. Emergency Showers and eye wash stations should be readily accessible. Use only in well-ventilated areas. Avoid breathing vapors and/or aerosols.

Heating this product above 300 Deg. F in the presence of air may cause slow oxidative decomposition; above 500 Deg. F, polymerization may occur. Some epoxy resins can produce exothermic reactions which in large masses can cause runaway polymerization. Fumes and vapors from these thermal and chemical decomposition may be extremely toxic. Use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

- **Information about protection against explosions and fires:** No special measures required.

- **Conditions for safe storage, including any incompatibilities ·**

**Storage:**

- **Requirements to be met by storerooms and receptacles:**

Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:** Keep receptacle tightly sealed.

- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. · **Protection of hands:**



Protective gloves

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*glove material has to be impermeable and resistant to the product/ the substance/ the preparation.*

*Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.*

*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

· **Material of gloves**

*The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.*

· **Penetration time of glove material**

*The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*

· **Eye protection:**



*Tightly sealed goggles*

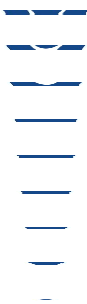


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Full face shields with tightly sealed goggles underneath. Contact lenses should not be worn.

· **Body protection:** Impervious protective clothing

## 9 Physical and chemical properties

· *Information on basic physical and chemical properties*

· *General Information* · **Appearance:**

· **Form:** Liquid  
 · **Color:** According to product specification  
 · **Odor:** Amine-like  
 · **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· *Change in condition*

· **Melting point/Melting range:** Undetermined.  
 · **Boiling point/Boiling range:** 220 °C (428 °F)

· **Flash point:** 116 °C (240.8 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 315 °C (599 °F)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

· **Lower:** Not determined.  
 · **Upper:** Not determined.

· **Vapor pressure at 20 °C (68 °F):** 1 hPa (0.8 mm Hg)

· **Density:** Not determined.

· **Relative density** Not determined. · **Vapor density** Not determined. · **Evaporation rate** Not determined.

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- |   |   |
|---|---|
| <b>· Solubility in / Miscibility with Water:</b>  | Not miscible or difficult to mix.                 |
| <b>· Partition coefficient (n-octanol/water):</b> | Not determined.                                   |
| <b>· Viscosity:</b>                               |   |
| <b>Dynamic:</b>                                   | Not determined. <b>Kinematic:</b> Not determined. |
| <b>· Solvent content:</b>                         |   |
| <b>VOC content:</b>                               | 0.00 %<br>0.0 g/l / 0.00 lb/gal                   |
| <b>· Other information</b>                        | No further relevant information available.        |

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions**  
Hazardous polymerization may occur if mixed with epoxy resins. Excessive exothermic reactions will occur when mixed with epoxy resins in larger masses (>100 grams). · **Conditions to avoid**  
Heat is generated during the curing/crosslinking process when mixed with epoxy resins. Minimize the mass (refer to possibility of hazardous reactions) to prevent a premature exothermic reaction producing intense heat and smoke.
- **Incompatible materials:**  
Sodium hypochlorite, lewis or mineral acids, Organic bases such as primary and secondary aliphatic amines, ketones, aldehydes, and oxidizing agents. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. A reaction accompanied by large heat release occurs when the product is mixed with acids.
- **Hazardous decomposition products:**  
Nitrogen oxides, ammonia, carbon monoxide and unidentified organic compounds (some containing nitrogen) may be formed during thermal or oxidative decomposition or combustion. Nitrogen oxide can react with water vapors to form corrosive nitric acid.

## 11 Toxicological information

- **Information on toxicological effects** ·
- Acute toxicity:**

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**· LD/LC50 values that are relevant for classification:**
**84852-15-3 4-nonylphenol, branched**

Oral	LD50	580 mg/kg (rat)
Dermal	LD50	2,140 mg/kg (rabbit)

**9046-10-0 Polyoxypropylenediamine**

Oral	LD50	2,885 mg/kg (rat)
Dermal	LD50	2,980 mg/kg (rabbit)

**140-31-8 2-piperazin-1-ylethylamine**

Oral	LD50	2,140 mg/kg (rat)
Dermal	LD50	880 mg/kg (rabbit)

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**Primary irritant effect:**

- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:** Sensitization possible through skin contact.

**· Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

**· Carcinogenic categories**
**· IARC (International Agency for Research on Cancer)**

7631-86-9 Synthetic Amorphous/fumed/pyrogenic silica	3
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**· NTP (National Toxicology Program)**

None of the ingredients is listed.

**· OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

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## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**
  - Must not reach bodies of water or drainage ditch undiluted or unneutralized.
  - Also poisonous for fish and plankton in water bodies.
  - Very toxic for aquatic organisms
  - Water hazard class 3 (Self-assessment): extremely hazardous for water
  - Do not allow product to reach ground water, water course or sewage system, even in small quantities.
  - Danger to drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods** ·

**Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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· *Class*  
· *Label*

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· *Packing group*  
· *DOT, ADR, IMDG, IATA*

III

· *Environmental hazards:*

*Product contains environmentally hazardous substances:  
4nonylphenol, branched*

· *Marine pollutant:*

Yes

· *Special marking (ADR):*

Symbol (fish and tree)

Symbol (fish and tree)

· *Special precautions for user*

Warning: Corrosive substances

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· <b>Hazard identification number (Kemler code):</b> 80	
· <b>EMS Number:</b>	F-A,S-B
· <b>Segregation groups</b>	Alkalis
· <b>Stowage Category</b>	A
· <b>Stowage Code</b>	SW2 Clear of living quarters.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>DOT</b>	
· <b>Remarks:</b>	Special marking with the symbol (fish and tree).
· <b>ADR</b>	
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b> UN 1760 CORROSIVE LIQUID, N.O.S. (4-NONYLPHENOL, BRANCHED, POLYOXYPROPYLENEDIAMINE), 8, III, ENVIRONMENTALLY HAZARDOUS	

## 15 Regulatory information

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

· <b>Section 355 (extremely hazardous substances):</b>
None of the ingredient is listed.
· <b>Section 313 (Specific toxic chemical listings):</b>
84852-15-3   4-nonylphenol, branched
· <b>TSCA (Toxic Substances Control Act):</b>
All components have the value ACTIVE.
· <b>Hazardous Air Pollutants</b>
None of the ingredients is listed.

· Sara

· California Proposition 65

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**Trade name: Generation 4 Catalyst****· Chemicals known to cause cancer:**

7631-86-9 Synthetic Amorphous/fumed/pyrogenic silica

**· Chemicals known to cause reproductive toxicity for females:**

7631-86-9 Synthetic Amorphous/fumed/pyrogenic silica

**· Chemicals known to cause reproductive toxicity for males:**

7631-86-9 Synthetic Amorphous/fumed/pyrogenic silica

**· Chemicals known to cause developmental toxicity:**

7631-86-9 Synthetic Amorphous/fumed/pyrogenic silica

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<b>· New Jersey Right-to-Know List:</b>	
140-31-8	2-piperazin-1-ylethylamine
7631-86-9	Synthetic Amorphous/fumed/pyrogenic silica
<b>· Pennsylvania Right-to-Know List:</b>	
140-31-8	2-piperazin-1-ylethylamine
7631-86-9	Synthetic Amorphous/fumed/pyrogenic silica

<b>· EPA (Environmental Protection Agency)</b>
None of the ingredients is listed.
<b>· TLV (Threshold Limit Value established by ACGIH)</b>
None of the ingredients is listed.
<b>· NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
None of the ingredients is listed.
<b>· Chinese Chemical Inventory of Existing Chemical Substances</b>
All ingredients are listed.

**· Cancerogenity categories**

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms** GHS05, GHS07, GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

4-nonylphenol, branched

Polyoxypropylenediamine

2-piperazin-1-ylethylamine

Synthetic Amorphous/fumed/pyrogenic silica

· **Hazard statements**

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child.

May cause respiratory irritation.

May be fatal if swallowed and enters airways.

· **Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dusts or mists.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

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*If swallowed: Immediately call a poison center/doctor.*

*Specific treatment (see on this label).*

*If swallowed: Rinse mouth. Do NOT induce vomiting.*

*If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.*

*IF INHALED: Remove person to fresh air and keep comfortable for breathing.*

*If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.*

*Continue rinsing.*

*IF exposed or concerned: Get medical advice/attention.*

*If skin irritation or rash occurs: Get medical advice/attention.*

*Wash contaminated clothing before reuse.*

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Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

84852-15-3	4-nonylphenol, branched
------------	-------------------------

· **Other regulations, limitations and prohibitive regulations**

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

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. The information given and the recommendations made herein apply to our product alone and are not combined with other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guarantee of accuracy is made. It is the user's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.

· **Department issuing SDS:** Product safety department.

· **Contact:** Environmental Health & Safety (EHS) personnel

· **Date of preparation / last revision** 02/17/2020 / ·

**Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern vPvB:

very Persistent and very Bioaccumulative NIOSH:

National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Asp.

Tox. 1: Aspiration hazard – Category 1