

# SAFETY DATA SHEET



Pelargonic acid  
10560

Version / Revision  
Supersedes Version

3.01  
3.00\*\*\*

Revision Date  
Issuing date

25-Feb-2019  
25-Feb-2019

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

### 1.1. Product identifier

Identification of the  
substance/preparation

# Pelargonic acid

Chemical Name Nonanoic acid  
CAS-No 112-05-0  
EC No. 203-931-2

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

Use of the Substance /  
Preparation Intermediate.  
Uses advised against None

### 1.3. Details of the supplier of the safety data sheet

Company/Undertaking  
Identification **OXEA Corporation**  
1505 West LBJ Freeway, Suite 400  
Dallas, TX 75234  
USA

Product Information Product Stewardship  
FAX: +49 (0)208 693 2053  
email: psq@oxea-chemicals.com

### 1.4. Emergency telephone number

Emergency telephone number +44 (0) 1235 239 670 (UK) available 24/7  
in USA, call 800 424 9300  
outside USA, call +1.703.527.3887, collect calls accepted available 24/7\*\*\*

## SECTION 2: Hazards identification

### Europe

#### 2.1. Classification of the substance or mixture

This substance is classified based on Directive 1272/2008/EC and its amendments (CLP Regulation)

Skin corrosion/irritation Category 2, H315  
Serious eye damage/eye irritation Category 2, H319  
Environmental hazard Aquatic Chronic 3; H412

#### Additional information

For full text of Hazard- and EU Hazard-statements see SECTION 16.

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## 2.2. Label elements

Labelling according to Regulation 1272/2008/EC and its amendments (CLP Regulation).

### Hazard pictograms



#### Signal word

#### Warning

#### Hazard statements

H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H412: Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.  
P332 + P313: If skin irritation occurs: Get medical advice/ attention.  
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313: If eye irritation persists: Get medical advice/ attention.

## 2.3. Other hazards

Vapour/air-mixtures are explosive at intense warming

#### PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB)

## USA

### 2.1. Classification of the substance or mixture

**This substance is classified in accordance with paragraph (d) of §1910.1200 (GHS-US classification).\*\*\***

Skin corrosion/irritation Category 2, H315  
Serious eye damage/eye irritation Category 2A, H319  
Environmental hazard Aquatic Acute 3; H402

#### OSHA Specified Hazards

Not applicable.

### 2.2. Label elements

Labeling according to §1910.1200 (GHS-US labeling).

#### Hazard symbol(s)

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## Signal word

## Warning

## Hazard statements

H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H402: Harmful to aquatic life

## Precautionary statements

## Prevention

P264: Wash hands thoroughly after handling.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

## Response

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.  
P332 + P313: If skin irritation occurs: Get medical advice/ attention.  
P362 + P364: Take off contaminated clothing and wash it before reuse.  
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313: If eye irritation persists: Get medical advice/ attention.

## Disposal

P501: Dispose of contents/container in accordance with local regulation.

## 2.3. Other hazards

Vapour/air-mixtures are explosive at intense warming

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

Component	CAS-No	REACH-No	1272/2008/EC	Concentration (%)
Pelargonic acid	112-05-0	01-2119529247-37	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	> 95,5

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

Keep at rest. Breathe with fresh air. When symptoms persist or in all cases of doubt seek medical advice.

#### Eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

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## **Skin**

Wash off immediately with soap and plenty of water. When symptoms persist or in all cases of doubt seek medical advice.

## **Ingestion**

Call a physician immediately. Do not induce vomiting without medical advice.

## **4.2. Most important symptoms and effects, both acute and delayed**

### **Main symptoms**

cough, headache, nausea, shortness of breath.

### **Special hazard**

Lung irritation, Lung oedema.

## **4.3. Indication of any immediate medical attention and special treatment needed**

### **General advice**

Remove contaminated, soaked clothing immediately and dispose of safely. First aider needs to protect himself.

Treat symptomatically. If ingested, flush stomach and compensate acidosis.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

foam, dry chemical, carbon dioxide (CO<sub>2</sub>), water spray

#### **Unsuitable Extinguishing Media**

Do not use a solid water stream as it may scatter and spread fire.

### **5.2. Special hazards arising from the substance or mixture**

Under conditions giving incomplete combustion, hazardous gases produced may consist of:

carbon monoxide (CO)

carbon dioxide (CO<sub>2</sub>)

Combustion gases of organic materials must in principle be graded as inhalation poisons

Vapours are heavier than air and may spread along floors

Vapour/air-mixtures are explosive at intense warming

### **5.3. Advice for firefighters**

#### **Special protective equipment for firefighters**

Fire fighter protection should include a self-contained breathing apparatus (NIOSH-approved or EN 133) and full fire-fighting turn out gear.

#### **Precautions for firefighting**

Keep people away from and upwind of fire. Cool containers / tanks with water spray. Dike and collect water used to fight fire. Water run-off can cause environmental damage.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

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For non-emergency personnel: For personal protective equipment see section 8. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Keep away from heat and sources of ignition.  
For emergency responders: Personal protection see section 8.

## 6.2. Environmental precautions

Prevent further leakage or spillage. Do not discharge product into the aquatic environment without pretreatment (biological treatment plant). Water runoff can cause environmental damage.

## 6.3. Methods and material for containment and cleaning up

### Methods for containment

Stop the flow of material, if possible without risk. Dike spilled material, where this is possible.

### Methods for cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Dispose of in accordance with local regulations. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

## 6.4. Reference to other sections

For personal protective equipment see section 8.

# SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

### Advice on safe handling

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Provide sufficient air exchange and/or exhaust in work rooms.

### Hygiene measures

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

### Advice on the protection of the environment

See Section 8: Environmental exposure controls.

### Incompatible products

bases  
amines  
strong oxidizing agents  
reducing agents

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

### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). In case of fire, emergency cooling with water spray should be available. Ground and bond containers when transferring material. Vapour/air-mixtures are explosive at intense warming.

### Technical measures/Storage conditions

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Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care. Keep at temperatures between 16 and 40 °C (60 and 104 °F).

**Temperature class**  
T2

## 7.3. Specific end use(s)

Distribution of substance  
Formulation  
cleaning agent  
Lubricants and lubricant additives  
Intermediate  
laboratory chemicals  
Industrial processing of articles

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

#### Exposure limits European Union

No exposure limits established.

#### Exposure limits Germany

No exposure limits established.

#### Exposure limits United States of America

No exposure limits established.

### 8.2. Exposure controls

#### Appropriate Engineering controls

General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems.

#### Personal protective equipment

##### General industrial hygiene practice

Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Ensure that eyewash stations and safety showers are close to the workstation location.

##### Hygiene measures

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

##### Eye protection

Tightly fitting safety goggles. In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face.

##### Hand protection

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Wear protective gloves. Recommendations are listed below. Other protective material may be used, depending on the situation, if adequate degradation and permeation data is available. If other chemicals are used in conjunction with this chemical, material selection should be based on protection for all chemicals present.

**Suitable material** nitrile rubber  
**Evaluation** according to EN 374: level 6  
**Glove thickness** approx 0,55 mm  
**Break through time** > 480 min

**Suitable material** polyvinylchloride / nitrile rubber  
**Evaluation** according to EN 374: level 6  
**Glove thickness** approx 0,9 mm  
**Break through time** > 480 min

## **Skin and body protection**

Impervious clothing. Wear face-shield and protective suit for abnormal processing problems.

## **Respiratory protection**

Respirator with filter for organic vapour. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Equipment should conform to NIOSH, EN or other applicable national standards.

## **Environmental exposure controls**

If possible use in closed systems. If leakage can not be prevented, the substance needs to be suck off at the emersion point, if possible without danger. Observe the exposure limits, clean exhaust air if needed. If recycling is not practicable, dispose of in compliance with local regulations. Inform the responsible authorities in case of leakage into the atmosphere, or of entry into waterways, soil or drains.

## **SECTION 9: Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	liquid
<b>Colour</b>	colourless
<b>Odour</b>	weak
<b>Odour threshold</b>	No data available
<b>pH</b>	4,4 (0,1 g/l in water @ 25 °C (77 °F)) DIN 19268
<b>Melting point/range</b>	13 °C (Pour point)
<b>Boiling point/range</b>	245 °C @ 1013 hPa
<b>Flash point</b>	137 °C @ 1013 hPa
<b>Method</b>	ISO 2719
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	Does not apply, the substance is a liquid
<b>Lower explosion limit</b>	0,8 Vol %
<b>Upper explosion limit</b>	9,0 Vol %

#### **Vapour pressure**

Values [hPa]	Values [kPa]	Values [atm]	@ °C	@ °F	Method
1	0,1	0,001	20	68	DIN EN 13016-2
4,6	0,46	0,005	50	122	DIN EN 13016-2

**Vapour density** 5,5 (Air = 1) @ 20 °C (68 °F)

**Relative density**

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Values	@ °C	@ °F	Method
0,905	20	68	DIN 51757
<b>Solubility</b>	0,3 g/l @ 20 °C, in water, OECD 105		
<b>log Pow</b>	3,4 (measured), OECD 117		
<b>Autoignition temperature</b>	355 °C @ 1013 hPa		
<b>Method</b>	DIN 51794		
<b>Decomposition temperature</b>	266 °C @ 1013 hPa		
<b>Viscosity</b>	8,1 mPa*s @ 20 °C		
<b>Method</b>	dynamic, ASTM D445		
<b>Oxidizing properties</b>	Does not apply, substance is not oxidising. There are no chemical groups associated with oxidizing properties		
<b>Explosive properties</b>	Does not apply, substance is not explosive. There are no chemical groups associated with explosive properties		

## 9.2. Other information

<b>Molecular weight</b>	158,23
<b>Molecular formula</b>	C <sub>9</sub> H <sub>18</sub> O <sub>2</sub>
<b>Refractive index</b>	1,433 @ 20 °C
<b>Surface tension</b>	31,7 mN/m (0,27 g/l @ 20°C (68°F)), OECD 115

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

The reactivity of the product corresponds to the typical reactivity shown by the substance group as described in any text book on organic chemistry.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

### 10.4. Conditions to avoid

Avoid contact with heat, sparks, open flame and static discharge. Avoid any source of ignition.

### 10.5. Incompatible materials

bases, amines, strong oxidizing agents, reducing agents.

### 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Likely routes of exposure** Ingestion, Inhalation, Eye contact, Skin contact



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<b>Acute toxicity</b>				
<b>Pelargonic acid (112-05-0)</b>				
Routes of Exposure	Endpoint	Values	Species	Method
Oral	LD50	> 2000 mg/kg	rat, male/female	OECD 423
Oral	LD0	2000 mg/kg	rat, male/female	OECD 423
Dermal	LD50	> 2000 mg/kg	rat, male/female	OECD 402
Dermal	LD0	2000 mg/kg	rat, male/female	OECD 402
Inhalative	LC50	>5997 mg/l	rat, male/female	OECD 403

## **Pelargonic acid, CAS: 112-05-0**

### **Assessment**

Based on available data, the classification criteria are not met for:

Acute oral toxicity  
Acute dermal toxicity  
Acute inhalation toxicity  
STOT SE

<b>Irritation and corrosion</b>				
<b>Pelargonic acid (112-05-0)</b>				
Target Organ Effects	Species	Result	Method	
Skin	rabbit	irritating	OECD 404	4h
Eyes	rabbit	irritating		

## **Pelargonic acid, CAS: 112-05-0**

### **Assessment**

The available data lead to the classification given in section 2

<b>Sensitization</b>				
<b>Pelargonic acid (112-05-0)</b>				
Target Organ Effects	Species	Evaluation	Method	
Skin	guinea pig	not sensitizing	OECD 406	
Skin	mouse	not sensitizing	OECD 429	

## **Pelargonic acid, CAS: 112-05-0**

### **Assessment**

Based on available data, the classification criteria are not met for:

Skin sensitization  
For respiratory sensitization, no data are available

<b>Subacute, subchronic and prolonged toxicity</b>				
<b>Pelargonic acid (112-05-0)</b>				
Type	Dose	Species	Method	
Subacute toxicity	NOAEL: 1000 mg/kg/d (28d)	rat, male/female	Oral	Systemic toxicity
Subchronic toxicity	NOAEL: 5074 mg/kg/d (90d)	rat	OECD 408 Oral	Systemic toxicity read across

## **Pelargonic acid, CAS: 112-05-0**

### **Assessment**

Based on available data, the classification criteria are not met for:

STOT RE

<b>Carcinogenicity, Mutagenicity, Reproductive toxicity</b>
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<b>Pelargonic acid (112-05-0)</b>					
Type	Dose	Species	Evaluation	Method	
Mutagenicity		Salmonella typhimurium	negative (with metabolic activation) negative (without metabolic activation)	OECD 471 (Ames)	
Mutagenicity		human lymphocytes	negative (with metabolic activation) negative (without metabolic activation)	OECD 473 (Chromosomal Aberration)	
Developmental Toxicity	NOAEL 1500 mg/kg/d	rat		OECD 414	Maternal toxicity, Fetal toxicity Teratogenicity
Developmental Toxicity	NOAEL 425 mg/kg/d	rabbit		OECD 414	Maternal toxicity, Developmental toxicity, Teratogenicity read across
Reproductive toxicity	NOAEL 4700 mg/kg/d	mouse		OECD 416	read across
Mutagenicity		mouse lymphoma cells	negative (without metabolic activation)	OECD 476 (Mammalian Gene Mutation)	

## **Pelargonic acid, CAS: 112-05-0**

### **CMR Classification**

The available data on CMR properties are summarized in the table above. They do not indicate a classification into categories 1A or 1B

### **Evaluation**

In vitro tests showed mutagenic effects  
Animal testing did not show any effects on fertility

## **Pelargonic acid, CAS: 112-05-0**

### **Main symptoms**

cough, headache, nausea, shortness of breath.

### **Target Organ Systemic Toxicant - Single exposure**

Based on available data, the classification criteria are not met for:  
STOT SE

### **Target Organ Systemic Toxicant - Repeated exposure**

Based on available data, the classification criteria are not met for:  
STOT RE

### **Aspiration toxicity**

Due to the viscosity, this product does not present an aspiration hazard

### **Note**

Handle in accordance with good industrial hygiene and safety practice. Further details on substance data can be found in the registration dossier under the following link:

<http://echa.europa.eu/information-on-chemicals/registered-substances>.

## **SECTION 12: Ecological information**

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## 12.1. Toxicity

<b>Acute aquatic toxicity</b>			
<b>Pelargonic acid (112-05-0)</b>			
Species	Exposure time	Dose	Method
Pimephales promelas (fathead minnow)	96h	LC50: 104 mg/l	OECD 203
Daphnia magna (Water flea)	48h	EC50: 96 mg/l	EPA OPP 72-2
Pseudokirchneriella subcapitata	72h	EC50: 60 mg/l (Growth rate)	read across
Activated sludge (domestic)	28 d	NOEC: >= 14 mg/l	OECD 301B

<b>Long term toxicity</b>				
<b>Pelargonic acid (112-05-0)</b>				
Type	Species	Dose	Method	
Reproductive toxicity	Daphnia magna (Water flea)	NOEC: 18 mg/l (21d)	OECD 211	read across
Reproductive toxicity	Daphnia magna (Water flea)	EC50: 47 mg/l/21d	OECD 211	read across
Aquatic toxicity	Pseudokirchneriella subcapitata	NOAEC: 29 mg/l (3d)	Growth rate	read across

## 12.2. Persistence and degradability

**Pelargonic acid, CAS: 112-05-0**

### Biodegradation

68 - 75 % (28 d), activated sludge (domestic), aerobic, non-adapted, OECD 301 B.

<b>Abiotic Degradation</b>		
<b>Pelargonic acid (112-05-0)</b>		
Type	Result	Method
Hydrolysis	not expected	
Photolysis	No data available	

## 12.3. Bioaccumulative potential

<b>Pelargonic acid (112-05-0)</b>		
Type	Result	Method
log Pow	3,4	measured, OECD 117
BCF	3,162	calculated

## 12.4. Mobility in soil

<b>Pelargonic acid (112-05-0)</b>		
Type	Result	Method
Surface tension	31,7 mN/m (0,27 g/l @ 20°C (68°F))	OECD 115
Adsorption/Desorption	log Koc: 2,02 @ pH 7 calculated	
Distribution to environmental compartments	no data available	

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## 12.5. Results of PBT and vPvB assessment

**Pelargonic acid, CAS: 112-05-0**  
**PBT and vPvB assessment**

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB)

## 12.6. Other adverse effects

**Pelargonic acid, CAS: 112-05-0**  
No data available

### Note

Avoid release to the environment.\*\*\*

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Product Information

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.

Hazardous waste according to European Waste Catalogue (EWC)

#### Uncleaned empty packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

## SECTION 14: Transport information

### Section 14.1 - 14.6

**ICAO-TI / IATA-DGR** Not restricted

**IMDG** Not restricted

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

Product name	Nonanoic acid
Ship type	3
Pollution category	Y

**ADR/RID** Not restricted

## SECTION 15: Regulatory information

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

### Regulation 1272/2008, Annex VI

#### Pelargonic acid, CAS: 112-05-0

**Classification** Skin Irrit. 2; H315  
Eye Irrit. 2; H319  
Aquatic Chronic 3; H412

**Hazard pictograms** GHS07 Exclamation mark

**Signal word** Warning\*\*\*

**Hazard statements** H315, H319, H412

#### DI 2012/18/EU (Seveso III)

**Category** not subject

#### DI 1999/13/EC (VOC Guideline)

Component	Status
Pelargonic acid CAS: 112-05-0	regulated

### International Inventories

#### Pelargonic acid, CAS: 112-05-0

AICS (AU)\*\*\*  
DSL (CA)\*\*\*  
IECSC (CN)\*\*\*  
EC-No. 2039312 (EU)\*\*\*  
ENCS (2)-608 (JP)\*\*\*  
ISHL (2)-608 (JP)\*\*\*  
KECI KE-26163 (KR)\*\*\*  
INSQ (MX)\*\*\*  
PICCS (PH)\*\*\*  
TSCA (US)\*\*\*  
NZIoC (NZ)\*\*\*  
TCSI (TW)\*\*\*

## **SECTION 16: Other information**

### **Full text of H-Statements referred to under sections 2 and 3**

H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H412: Harmful to aquatic life with long lasting effects.

### **Abbreviations**

A table of terms and abbreviations can be found under the following link:  
[http://echa.europa.eu/documents/10162/13632/information\\_requirements\\_r20\\_en.pdf](http://echa.europa.eu/documents/10162/13632/information_requirements_r20_en.pdf)

### **Training advice**

For effective first-aid, special training / education is needed.

### **Sources of key data used to compile the datasheet**

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Information contained in this safety data sheet is based on Oxea owned data and public sources deemed valid or acceptable. The absence of data elements required by OSHA, ANSI or Annex II, Regulation 1907/2006/EC indicates, that no data meeting these requirements is available.

#### **Further information for the safety data sheet**

Changes against the previous version are marked by \*\*\*. Observe national and local legal requirements. For more information, other material safety data sheets or technical data sheets please consult the Oxea homepage ([www.oxea-chemicals.com](http://www.oxea-chemicals.com)).

#### **Disclaimer**

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**End of Safety Data Sheet**