

## SAFETY DATA SHEET

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

**1.1. Product identifier**
**Henko Activator**
**Chemical Abstracts Registry No:** MIXTURE\_\_\_\_\_

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

Urethane catalyst

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

Henko A&amp;T.

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**1.4. Emergency telephone number** **Henko A&T:** +31 (0)495 63 30 10

### SECTION 2: Hazards identification

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

(According to Regulation (EC) No 1272/2008)

 Skin Irritation Category 2  
 Serious Eye Irritation Category 2  
 Environmental Chronic Category 4

(According to Directive 67/548/EEC)

**Symbol:** Xi

**Risk Phrases:** R36/38: Irritating to eyes and skin.

R53: May cause long term adverse effects in the aquatic environment.

**Safety Phrases:** S24/25: Avoid contact with skin and eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S61: Avoid release to the environment. Refer to special instructions/safety data sheet.

**2.2. Label elements**
**Hazard Symbols  
(Pictogram):**

**Signal Word:**

Warning

**Hazard Precautions:**

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H413 - May cause long lasting harmful effects to aquatic life.

**Prevention Precautionary  
Statements:**

P264 - Wash hands thoroughly after handling.

P273 - Avoid release to the environment.

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### First Aid Precautionary Statements:

P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P302+P352 - IF ON SKIN: Wash with plenty of soap and water.  
 P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P321 - Specific treatment (see supplemental information on this label).  
 P332+P313 - If skin irritation occurs: Get medical advice/attention.  
 P337+P313 - If eye irritation persists: Get medical advice/attention.  
 P362 - Take off contaminated clothing and wash before reuse.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances or 3.2. Mixtures

Ingredient	CAS Number	Concentration (weight %)	EC Number	CLP Inventory/ Annex VI	EU DSD Classification (67/548/EEC)	EU CLP Classification (1272/2008)
Bismuth(3+) neodecanoate	34364-26-6	58	251-964-6	Not listed.	Xi R36, R53	Aquatic Chronic 4; H413 Eye Irrit. 2; H319
Neodecanoic Acid	26896-20-8	42	248-093-9	Not listed.	Xi R36, R38	Eye Irrit. 2; H319 Skin Irrit. 2; H315

NOTE: See Section 8 for exposure limit data for these ingredients. See Section 15 for trade secret information (where applicable). See Section 16 for the full text of the R-phrases above.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Skin Contact:** Wash thoroughly after skin contact. Wash with soap and water. Remove contaminated clothing, launder immediately, and discard contaminated leather goods. Get medical attention immediately. Immediately wash skin with plenty of soap and water while removing contaminated clothing and shoes. GET MEDICAL ATTENTION. Contaminated clothing should be discarded in a manner that limits further exposure.

**Eye Contact:** Immediately flush the eyes with plenty of water for at least 15 minutes. Call a physician. If overexposed to fumes or vapors, flush eyes with large amount of water for at least 20 minutes. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.

**Inhalation:** Remove from exposure. If not breathing, give artificial respiration and call a physician. Immediately transport victim to an emergency care facility.

**Ingestion:** If swallowed, do not induce vomiting. Get prompt medical attention. Contact a poison information service for immediate/additional treatment advice. Do NOT induce vomiting.

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

**Acute:** Contact with this material may cause skin irritation. Contact with eyes causes irritation. Direct contact causes skin irritation.

**Delayed Effects:** None known.

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

**Note to Physician:** No specific indications. Treatment should be based on the judgment of the physician in response to the reactions of the patient.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

**Appropriate Extinguishing Media:** Carbon dioxide, Alcohol foam

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

**Hazardous Products of Combustion:** As with other organic materials, combustion will produce carbon monoxide and carbon dioxide.

**Potential for Dust Explosion:** not available

**Special Flammability Hazards:** Not applicable.

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

**Basic Firefighting Guidance:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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

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

**Evacuation Procedures:** Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Special Instructions:** See Section 8 for personal protective equipment recommendations. Remove all contaminated clothing to prevent further absorption. Decontaminate affected personnel using the first aid procedures in Section 4. Leather shoes that have been saturated must be discarded.

### **6.2. Environmental precautions**

Prevent releases to soils, drains, sewers and waterways.

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

Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Remove all ignition sources. Ventilate the area of spill or leak. Wear protective equipment during clean-up. For small spills, use suitable absorbent material and collect for later disposal. For large spills, the area may require diking to contain the spill. Material can then be collected (eg., suction) for later disposal. After collection of material, flush area with water. Dispose of the material in accordance with standard practice for disposal of potentially hazardous materials as required by applicable federal, state or local laws.

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### 64. Reference to other sections

Refer to section 8 for information on selecting personal protective equipment. Refer to section 13 for information on spilled product, absorbent and clean up material disposal instructions.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Precautions for Unique Hazards:** Not applicable.

**Practices to Minimize Risk:** Wear appropriate protective equipment when performing maintenance on contaminated equipment. Wash hands thoroughly before eating or smoking after handling this material. Do not eat, drink or smoke in work areas. Prevent contact with incompatible materials. Avoid spills and keep away from drains. Handle in a manner to prevent generation of aerosols, vapors or dust clouds.

**Special Handling Equipment:** Use with adequate ventilation.  
 S24/25: Avoid contact with skin and eyes.  
 Follow all SDS/label precautions even after container is emptied because it may retain product residues.

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

**Storage Precautions & Recommendations:** This product should be stored at ambient temperature in a dry, well-ventilated location. Keep container closed when not in use. Store in a cool dry place. Isolate from incompatible materials.

**Dangerous Incompatibility Reactions:** Can react vigorously with oxidizing materials.

**Incompatibilities with Materials of Construction:** None known

### 7.3. Specific end use(s)

If a chemical safety assessment has been completed an exposure scenario is attached as an annex to this Safety Data Sheet. Refer to this annex for the specific exposure scenario control parameters for uses identified in subsection 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Occupational Exposure Limits:** None established.

**Air Monitoring Method:** Not available.

### 8.2. Exposure controls

Also see the annex to this SDS (if applicable) for specific exposure scenario controls.

**Other Engineering Controls:** All operations should be conducted in well-ventilated conditions. Local exhaust ventilation should be provided.

**Personal Protective Equipment:** Safety glasses or chemical goggles. Goggles or glasses with side shields. Use chemical goggles, faceshields, boots and impervious clothing, if conditions involve potential for splashing or spraying. Wear goggles and a Face shield. Impermeable gloves and safety goggles should be worn at all times. Use impervious gloves. Chemical goggles, and impervious clothing, gloves and boots should be considered if extensive splashing is likely.

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<b>Respirator Caution:</b>	Observe OSHA regulations for respirator use (29 CFR 1910.134). Air-purifying respirators must not be used in oxygen-deficient atmospheres.
<b>Thermal Hazards:</b>	Not applicable.
<b>Environmental Exposure Controls:</b>	The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### SECTION 9: Physical and chemical properties

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

<b>Appearance, State &amp; Odor (ambient temperature):</b>	Clear, slightly yellow liquid with a mild odor.		
<b>Molecular Formula:</b>	No data available.	<b>Molecular Weight:</b>	Mixture
<b>Vapor Pressure:</b>	No data available.	<b>Evaporation Rate:</b>	< 1 (Butyl Acetate = 1)
<b>Specific Gravity or Density:</b>	No data available.	<b>Vapor Density (air = 1):</b>	6 (Heavier than air)
<b>Boiling Point:</b>	No data available.	<b>Freezing / Melting Point:</b>	- 40 °F
<b>Solubility in Water:</b>	Insoluble	<b>Octanol / Water Coefficient:</b>	10.64 (est.)
<b>pH:</b>	4.5 (2% solution)	<b>Odor Threshold:</b>	No data available.
<b>Viscosity:</b>	Gardner V @ 77 F	<b>Autoignition Temperature:</b>	No data available.
<b>Flash Point and Method:</b>	221°F (105°C)	<b>Flammable Limits:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.	<b>Decomposition Temperature:</b>	No data available.
<b>Explosive Properties:</b>	No data available.	<b>Oxidizing Properties:</b>	No data available.

### SECTION 10: Stability and reactivity

<u>10.1. Reactivity</u>	Not classified as dangerously reactive.
<u>10.2. Chemical stability</u>	Stable
<u>10.3. Possibility of hazardous reactions</u>	Not expected to occur.
<u>10.4. Conditions to avoid</u>	Incompatible with oxidizing materials.
<u>10.5. Incompatible materials</u>	Can react vigorously with oxidizing materials.
<u>10.6. Hazardous decomposition products</u>	Incomplete combustion yields carbon monoxide, carbon dioxide and dense smoke.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

<b>Acute Oral LD<sub>50</sub>:</b>	3030 mg/kg (rat) 2700 mg/kg (rat)	Bismuth(3+) neodecanoate Neodecanoic Acid
<b>Acute Dermal LD<sub>50</sub>:</b>	> 2000 mg/kg (rabbit) > 3640 mg/kg (rat)	Bismuth(3+) neodecanoate Neodecanoic Acid
<b>Acute Inhalation LC<sub>50</sub>:</b>	Inhalation LC <sub>50</sub> (4h) (rat) = 5500 mg/cubic meter	Bismuth(3+) neodecanoate
<b>Skin Irritation:</b>	Irritating to the skin.	
<b>Eye Irritation:</b>	Causes eye irritation.	
<b>Skin Sensitization:</b>	No data available.	
<b>Mutagenicity:</b>	No data available.	
<b>Reproductive / Developmental Toxicity:</b>	No data available	
<b>Carcinogenicity:</b>	No data available.	
<b>Target Organs:</b>	No data available.	
<b>Primary Route(s) of Exposure:</b>	Inhalation. Ingestion. Eye contact. Skin contact.	
<b>Most important symptoms and effects, both acute and delayed</b>	Contact with this material may cause skin irritation. Contact with eyes causes irritation. Direct contact causes skin irritation. Delayed Effects: None known.	
<b>Additive or Synergistic effects:</b>	None known.	
<b>Additional Toxicity Information:</b>	Toxicological data are for components.	

### SECTION 12: Ecological information

<u>121. Toxicity</u>	47.11 mg/L 32 MG/L [STATIC]	Neodecanoic Acid
<u>122. Persistence and degradability</u>	No data available	
<u>123. Bioaccumulative potential</u>	This material is NOT soluble in water therefore bioconcentration in aquatic organisms should be significant.	
<u>124. Mobility in soil</u>	No data available	
<u>125. Results of PBT and vPvB assessment</u>	No data available.	
<u>126. Other adverse effects</u>	Eco-toxicological data are for components.	

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

<b>USEPA WasteNumber:</b>	Non-Hazardous
<b>Waste Classification: (per US regulations)</b>	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
<b>WasteDisposal:</b>	NOTE: Generator is responsible for proper waste characterization. State hazardous waste regulations may differ substantially from federal regulations. Dispose of this material responsibly, and in accordance with standard practice for disposal of potentially hazardous materials as required by applicable international, national, regional, state or local laws, and environmental protection duty of care principles. Do NOT dump into any sewers, on the ground, or into any body of water. For disposal within the EC, the appropriate classification code according to the European Community List of Wastes should be used. Note that disposal regulations may also apply to empty containers and equipment rinsates.

### SECTION 14: Transport information

*The following information applies to all shipping modes (DOT/IATA/ICAO/IMDG/ADR/RID/ADN), unless otherwise indicated:*

<b>14.1. UN number</b>	Not applicable	<b>14.2. UN proper shipping name</b>	Chemicals, n.o.s. (Henko activator)
<b>14.3. Transport hazard class(es)</b>	Not applicable	<b>14.4. Packing group</b>	Not applicable
<b>14.5. Environmental hazards</b>	Not applicable		
<b>14.6. Special precautions for user</b>	No data available.		
<b>NA Emergency Guidebook Numbers:</b>	Not applicable	<b>IMDG EMS:</b>	Not applicable;
<b>14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>			Not applicable.

### SECTION 15: Regulatory information

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

<b>Chemical Inventory Lists:</b>	<b>Status:</b>		
<b>USA TSCA:</b>	Listed	<b>EINECS:</b>	251-964-6 248-093-9
<b>Canada(DSL/NDL):</b>	DSL	<b>Japan:</b>	Not listed
<b>Korea:</b>	Listed KE-25752 Listed KE-25750	<b>Australia:</b>	Listed
<b>China:</b>	Listed 35954 Listed 35883	<b>Philippines:</b>	Listed
<b>Taiwan:</b>	Listed	<b>New Zealand:</b>	Listed
<b>WHMIS Classification:</b>	Class D, Division 2, Subdivision B: Irritant. Class D, Division 2, Subdivision B: Toxic Material.		
<b>German Water Hazard Classification:</b>	ID Number 1858, hazard class 2 - hazard to waters ( <i>Neodecansäure</i> )		

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SARA 313: Not listed.

HMIS:

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0

NFPA:



### 152 Chemical safety assessment

Not applicable.

## SECTION 16: Other information

Fulltext of R phrases in  
Section 3:

R36: Irritating to the eyes.  
R53: May cause long term adverse effects in the aquatic environment.  
R38: Irritating to the skin.

Training Advice:

Not applicable.

Legend of Abbreviations:

ACGIH = American Conference on Governmental Industrial Hygienists.  
CAS = Chemical Abstracts Service.  
CFR = Code of Federal Regulations.  
DSL/NDL = Domestic Substances List/Non-Domestic Substances List.  
EC = European Community.  
EINECS = European Inventory of Existing Commercial Chemical Substances.  
ELINCS = European List of Notified Chemical Substances.  
EU = European Union.  
GHS = Globally Harmonized System.  
LC = Lethal Concentration.

LD = Lethal Dose.  
NFPA = National Fire Protection Association.  
NIOSH = National Institute of Occupational Safety and Health.  
NTP = National Toxicology Program.  
OSHA = Occupational Safety and Health Administration  
PEL = Permissible Exposure Limit.  
RQ = Reportable Quantity.  
SARA = Superfund Amendments and Reauthorization Act of 1986.  
TLV = Threshold Limit Value.  
WHMIS = Workplace Hazardous Materials Information System.

**Important Note:** Please note that the information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. The information contained herein may change without prior notice. **THIS SAFETY DATA SHEET SUPERSEDES ALL PREVIOUS EDITIONS.**

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