# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: ASPELXX-NTS100 Issue date: 5/11/2015 Revision date: 1/13/2020 Supersedes: 10/5/2017 Version: 1.2

SECTION 1: Identification	
1.1. Identification	
Product form Product name Product code	: Mixture : HPI_LRL-1000 : ASPELXX-005-CUD
1.2. Recommended use and restrictions on	use
Use of the substance/mixture	: This product is specifically manufactured for, and must be exclusively used in, heavy industrial applications.
1.3. Supplier	
HPI Processes Inc	
1030 Revenue Drive Telford, PA 18969 – USA T 215-799-0450	
1.4. Emergency telephone number	
Emergency number	: 800-535-5053
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mixt	ure
GHS US classification	
Skin Corr. 1A Eye Dam. 1 Full text of hazard classes and H-statements : see s	H314 Causes severe skin burns and eye damage H318 Causes serious eye damage ection 16
2.2. GHS Label elements, including precau	tionary statements
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US) Hazard statements (GHS US)	: Danger : H314 - Causes severe skin burns and eye damage
Precautionary statements (GHS US)	<ul> <li>H314 - Causes servere skin burns and eye barnage</li> <li>H318 - Causes servere skin burns and eye barnage</li> <li>P260 - Do not breathe dust, mist, spray.</li> <li>P264 - Wash clothing, hands, forearms and face thoroughly after handling.</li> <li>P280 - Wear eye protection, face protection, protective clothing, protective gloves.</li> <li>P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.</li> <li>P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P310 - Immediately call a doctor, a POISON CENTER.</li> <li>P321 - Specific treatment (see supplemental first aid instruction on this label).</li> <li>P363 - Wash contaminated clothing before reuse.</li> </ul>

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P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards which do not result in classification

#### No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

### **SECTION 3: Composition/Information on ingredients**

### 3.1. Substances

#### Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Potassium Carbonate Plus 47% Liquid	-	20 – 50	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1, H314 Skin Corr. 1A, H314 Eye Dam. 1, H318
Sodium Silicate	CAS-No.: 1344-09-8	3 – 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Octenylsuccinic Acid	CAS-No.: 28805-58-5	1 – 3	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318
Poly(acrylic acid sodium salt)	CAS-No.: 9003-04-7	1 – 3	Eye Irrit. 2A, H319
Alcohols, C8-10, ethoxylated propoxylated	CAS-No.: 68603-25-8	1 – 3	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Potassium Hydroxide	CAS-No.: 1310-58-3	1 – 3	Acute Tox. 4 (Oral), H302 Skin Corr. 1, H314 Eye Dam. 1, H318

Full text of hazard classes and H-statements : see section 16

## **SECTION 4: First-aid measures**

4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

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4.2. Most important symptoms and effects (acute and delayed)		
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.	
Symptoms/effects Symptoms/effects after eye contact	: Causes severe skin burns and eye damage. : Causes serious eye damage.	
4.3. Immediate medical attention and special treatment, if necessary		

No additional information available

SECTION 5: Fire-fighting measures			
5.1. Suitable (and unsuitable) extinguishing	media		
Suitable extinguishing media Unsuitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand. : Do not use a heavy water stream.		
5.2. Specific hazards arising from the chemical			
No additional information available			
5.3. Special protective equipment and precautions for fire-fighters			
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.		
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.		

SECTION 6: Accidental release measures		
6.1. Personal precautions, prote	ctive equipment and emergency procedures	
6.1.1. For non-emergency personne		
Emergency procedures	: Evacuate unnecessary personnel.	
6.1.2. For emergency responders		
Protective equipment Emergency procedures	: Equip cleanup crew with proper protection. : Ventilate area.	
6.2. Environmental precautions		
Prevent entry to sewers and public wa	ers. Notify authorities if liquid enters sewers or public waters.	
6.3 Methods and material for containment and cleaning up		

Methods for cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact during pregnancy/while nursing.
Hygiene measures 7.2. Conditions for safe storage, includir	: Wash hands, forearms and face thoroughly after handling.
Technical measures	
Storage conditions	<ul> <li>Comply with applicable regulations.</li> <li>Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.</li> </ul>
Incompatible products Incompatible materials	: Strong bases. Strong acids. : Sources of ignition. Direct sunlight.

## SECTION 8: Exposure controls/personal protection

8.1. Control parameters	
HPI LRL-1000	
No additional information available	
Potassium Hydroxide (1310-58-3)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Potassium hydroxide
ACGIH OEL Ceiling	2 mg/m³
Remark (ACGIH)	URT, eye, & skin irr
Octenylsuccinic Acid (28805-58-5)	
No additional information available	
Sodium Silicate (1344-09-8)	
No additional information available	
Poly(acrylic acid sodium salt) (9003-04-7)	
No additional information available	
Alcohols, C8-10, ethoxylated propoxylated (68603-25-8)	
No additional information available	
Potassium Carbonate Plus 47% Liquid	
No additional information available	
8.2. Appropriate engineering controls	

No additional information available

8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

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Hand protection:
Wear protective gloves.
Eye protection:
Chemical goggles or face shield
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
Wear appropriate mask
Other information:

Do not eat, drink or smoke during use.

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

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

Physical state	: Liquid
Color	: light yellow
Odor	: characteristic
Odor threshold	: No data available
рН	: 12
pH solution	: 11.4 (10%)
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1.26
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Thermal decomposition generates : Corrosive vapors.

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### 10.2. Chemical stability

Not established.

**10.3. Possibility of hazardous reactions** 

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

**10.6. Hazardous decomposition products** 

fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapors.

SECTION 11: Toxicological information	on	
11.1. Information on toxicological effects		
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>	
Potassium Hydroxide (1310-58-3)		
LD50 oral rat	333 mg/kg (Equivalent or similar to OECD 425, Rat, Male, Experimental value, Oral)	
ATE US (oral)	333 mg/kg body weight	
Octenylsuccinic Acid (28805-58-5)		
LD50 oral rat	1190 mg/kg	
LD50 dermal rabbit	1750 mg/kg	
Sodium Silicate (1344-09-8)		
LD50 oral rat	> 2000 mg/kg (Rat, Oral)	
Poly(acrylic acid sodium salt) (9003-04-7	)	
LD50 oral rat	> 40000 mg/kg (Rat, Oral)	
Potassium Carbonate Plus 47% Liquid		
LD50 oral rat	> 2000 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male/female, Experimental value, Oral, 14 day(s))	
LD50 dermal rabbit	> 2000 mg/kg body weight (24 h, Rabbit, Male/female, Experimental value, Dermal, 14 day(s))	
LC50 inhalation rat (mg/l)	> 4.96 mg/l (4.5 h, Rat, Male/female, Experimental value, Inhalation (dust), 14 day(s))	
ATE US (dust, mist)	1.5 mg/l/4h	
Skin corrosion/irritation	: Causes severe skin burns.	
Serious eye damage/irritation	pH: 12 : Causes serious eye damage. pH: 12	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity Reproductive toxicity	: Not classified : Not classified	

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STOT-single exposure STOT-repeated exposure Aspiration hazard Viscosity, kinematic Potential Adverse human health effects and symptoms	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not data available</li> <li>Based on available data, the classification criteria are not met.</li> </ul>
Symptoms/effects	: Causes severe skin burns and eye damage.
Symptoms/effects after eye contact	: Causes serious eye damage.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Potassium Hydroxide (1310-58-3)		
LC50 - Fish [1]	80 mg/l (96 h, Gambusia affinis, Static system, Fresh water, Experimental value)	
Octenylsuccinic Acid (28805-58-5)		
EC50 - Daphnia [1]	22 mg/l	
Sodium Silicate (1344-09-8)		
LC50 - Fish [1]	3185 mg/l (96 h, Brachydanio rerio, Not neutralized)	
EC50 - Daphnia [1]	216 mg/l (96 h, Daphnia magna)	
EC50 - Daphnia [2]	160 mg/l (96 h, Amphipoda)	
Poly(acrylic acid sodium salt) (9003-04-7)		
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oryzias latipes, Experimental value)	
EC50 - Daphnia [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Experimental value)	
Potassium Carbonate Plus 47% Liquid		
LC50 - Fish [1]	200 mg/l (72 h, Pisces, Literature study)	
EC50 - Daphnia [1]	200 mg/l (FIFRA 72-1, 48 h, Daphnia pulex, Static system, Fresh water, Experimental value, GLP)	
LC50 - Fish [2]	68 mg/l (FIFRA 72-1, 96 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value, GLP)	

## 12.2. Persistence and degradability

HPI LRL-1000	
Persistence and degradability Not established.	
Potassium Hydroxide (1310-58-3)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

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Octenylsuccinic Acid (28805-58-5)		
Persistence and degradability	Not established.	
Sodium Silicate (1344-09-8)		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
Poly(acrylic acid sodium salt) (9003-04-7)		
Persistence and degradability	Not readily biodegradable in water.	
Potassium Carbonate Plus 47% Liquid		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	

### 12.3. Bioaccumulative potential

HPI LRL-1000		
Bioaccumulative potential	Not established.	
Potassium Hydroxide (1310-58-3)		
Bioaccumulative potential	Bioaccumulation: not applicable.	
Octenylsuccinic Acid (28805-58-5)		
Bioaccumulative potential	Not established.	
Sodium Silicate (1344-09-8)		
Bioaccumulative potential	Bioaccumulation: not applicable.	
Poly(acrylic acid sodium salt) (9003-04-7)		
Bioaccumulative potential	Low potential for bioaccumulation (molecular mass >=700 g/mol).	
Potassium Carbonate Plus 47% Liquid		
Bioaccumulative potential	Bioaccumulation: not applicable.	
12.4. Mobility in soil		
Sodium Silicate (1344-09-8)		
Ecology - soil	No (test)data on mobility of the components available.	
Potassium Carbonate Plus 47% Liquid		
Ecology - soil	No (test)data on mobility of the substance available.	

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### 12.5. Other adverse effects

Other	information
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: Avoid release to the environment.

SECTION 13: Disposal considerations	
13.1. Disposal methods	
Product/Packaging disposal recommendations Ecology - waste materials	: Dispose in a safe manner in accordance with local/national regulations. : Avoid release to the environment.

SECTION 14: Transport information	
14.1. UN number	
Not regulated for transport	
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Not applicable
14.3. Transport hazard class(es)	
<b>DOT</b> Transport hazard class(es) (DOT)	: Not applicable
14.4. Packing group	
Packing group (DOT)	: Not applicable
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT No data available	
14.7. Transport in bulk according to Annex	II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information	
15.1. US Federal regulations	
Potassium Hydroxide (1310-58-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313	
CERCLA RQ 1000 lb	
Octenylsuccinic Acid (28805-58-5)	

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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#### Sodium Silicate (1344-09-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Poly(acrylic acid sodium salt) (9003-04-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Alcohols, C8-10, ethoxylated propoxylated (68603-25-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Potassium Carbonate Plus 47% Liquid

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

#### CANADA

No additional information available

#### **EU-Regulations**

No additional information available

#### **National regulations**

No additional information available

#### 15.3. US State regulations

Component	State or local regulations
	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

#### **SECTION 16: Other information**

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Revision date	: 01/13/2020
Other information	: None.

## Full text of H-phrases

· · · · · ·	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation:dust,m ist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Corr. 1	Skin corrosion/irritation Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A

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Full text of H-p	Full text of H-phrases	
Skin Irrit. 2	Skin corrosion/irritation Category 2	
H302	Harmful if swallowed	
H312	Harmful in contact with skin	
H314	Causes severe skin burns and eye damage	
H315	Causes skin irritation	
H318	Causes serious eye damage	
H319	Causes serious eye irritation	
H332	Harmful if inhaled	

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.