

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	Mixture
Product Name / Trade Name	PUR-Guard™ Accelerator
CAS No.	Mixture

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)	Accelerator for PUR-Guard™
Uses Advised Against	None

Details of the supplier of the safety data sheet

Company Identification	Res-Tek, Inc. 110 Riverside Drive Cartersville, Georgia 30120 United States of America
Telephone	1-888-737-8351 / 1-770-427-4034
Emergency telephone number	CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)	Acute Tox. Oral 3; Acute Tox. Derm 3; Acute Tox. Inhal. 3; Skin Irrit. 1A; Eye Damage 1; STOT RE 2
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Label elements

Hazard Symbol



DANGER

Signal Word(s)

Hazard Statement(s)

Toxic if swallowed.
Toxic in contact with skin.
Toxic if inhaled.
Causes severe skin burns and eye damage.
May cause respiratory irritation. May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement(s)

Wash face hands and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when working with this product.
Use only outdoors or in a well ventilated area.
Do not breathe dust / fumes / gas / mist / vapours / spray.
Wear protective gloves / protective clothing / eye protection / face protection.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Immediately call POISON CENTER or doctor/physician.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call POISON CENTER

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN (or hair): Wash skin with plenty of water. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

Store locked up. Store in well ventilated place. Keep container tightly closed.
None

Other hazards

Additional Information

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	%W/W	CAS No.	Hazard Statement(s)
1-Methylimidazole	80 – 100	616-47-7	Acute Tox. Oral 4; H302 Acute Tox. Skin 4; H312 Skin Corr. 1B; H314
Proprietary	0 – 20	Proprietary	

For full text of H phrases see section 16.

Additional Information - None

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation

Move person to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician or POISON CENTER immediately.

Skin Contact

In case of contact, immediately flush skin with soap and plenty of water. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before reuse. Discard contaminated shoes. Call a physician if irritation develops or persists.

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lens, if present and easy to do. Keep eye wide open while rinsing. Call a physician or POISON CENTER immediately.

Ingestion

Immediately rinse the mouth then drink plenty of water. DO NOT induce vomiting. Seek medical attention.

Most important symptoms and effects, both acute and delayed

Do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or POISON CENTER immediately.

Notes to physician

Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Flammability of the product.

Combustible liquid. Vapor may cause flash fire or explosion.

Extinguishing Media

Suitable Extinguishing Media

Extinguish preferably with water spray, foam, carbon dioxide (CO₂), or dry chemical. Foam. Water mist may be used to cool containers. Do not get water inside container.

Unsuitable Extinguishing Media

None known.

Specific hazards during firefighting

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Container explosion may occur under fire conditions. Use water spray to keep fire-exposed containers cool.

Hazardous combustion products

Thermal decomposition of combustion may produce hazardous gases and/or materials.

Special protective equipment for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid contact with skin, eyes and clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Remove all sources of ignition.

Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Do not allow material to contaminate ground water system. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and material for containment and cleaning up

Remove all sources of ignition. Use spark proof tools and explosion proof equipment. Ground and bond containers when transferring material. Take precautionary measures against static electricity. Evacuate personnel to a safe area. Contain spillages with sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Wash the spillage area with water. If possible prevent water running into sewers.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Use only in an area equipped with a safety shower. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation. Use only in well ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Avoid repeated exposure. Keep away from open flames, hot surfaces and sources of ignition. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well ventilated place. Keep in properly labelled containers. Hygroscopic. Protect from moisture.

Materials to avoid

Strong oxidizing agents. Carbon dioxide (CO₂). Acid anhydrides. Acid chlorides. Mineral acids. Acids. Explosive reaction with osmium (VIII) oxide.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
1-Methylimidazole	616-47-7	-----	-----	-----	-----	-----

- TWA: Time Weighted Average, STEL: Short Term Exposure Limit; PEL: Permissible Exposure Level, TLV: Threshold Limit Value

Exposure controls

Appropriate engineering controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Personal protection equipment

Eye/face protection



Safety eyewear should be used to avoid exposure to liquid splashes, mists or dusts. Chemical splash goggles. Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded. Ensure that eyewash stations and safety showers are close to the workstation location.

Skin protection (Hand protection/ Other)



Use chemical resistant gloves. Examples of glove materials that might provide suitable protection include: Butyl rubber, Chlorinated polyethylene, Polyethylene, Ethyl vinyl alcohol copolymers laminated ("EVAL"), Polychloroprene (Neoprene*), Nitrile/butadiene rubber ("nitrile" or "NBR"), Polyvinyl chloride ("PVC" or "vinyl"), Fluoroelastomer (Viton*).

Impervious clothing: Choose body protection according to the amount and concentration of the dangerous substance at the work place. Recommended: Overall (preferably heavy cotton) or Tyvek-Pro Tech 'C', Tyvek Pro 'F' disposable coverall.

Respiratory protection



Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. In emergency, non-routine and unknown exposure situations, including confined space entries, a NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied air respirator (SAR) with auxiliary self-contained air supply, should be used.

Protective measures

Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Ensure that eye flushing systems and safety showers are located close to the working place.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product. Wash hands before breaks and at the end of workday.

Environmental Exposure Controls

Prevent entry into drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid.
Color.	Colorless.
Odor	Amine like.
Odor Threshold (ppm)	Not available.
pH (Value)	9.5 – 11.5 @ 100 g/L @ 20°C (68°F).
Melting Point (°C) / Freezing Point (°C)	-6°C (21°F).
Boiling point/boiling range (°C):	Not available.
Flash Point (°C)	92°C (198°F) Closed Cup.
Evaporation Rate	Not available.
Flammability (solid, gas)	Not available
Explosive Limit Ranges	Not available.
Vapour pressure (mmHg)	0.38 mmHg @ 20°C (68°F).
Vapour Density (Air=1)	2.83.
Density (g/ml)	1.036 @ 20°C (8.65 lb/gal).
Specific Gravity	1.036.
Solubility (Water)	Soluble.
Solubility (Other)	Not available.
Partition Coefficient (n-Octanol/water)	Not available.
Auto Ignition Point (°C)	525°C (977°F).
Decomposition Temperature (°C)	Not available.
Kinematic Viscosity (cSt)	Not available.
Viscosity, Dynamic	Not available.
Explosive properties	Not available.
Oxidizing properties	Not available
Other information	Not available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No hazardous reactions expected under normal conditions of storage and use. Hazardous polymerization does not occur.
Conditions to avoid	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Hygroscopic. Avoid moisture. Contact with metal may evolve flammable hydrogen gas.
Incompatible materials	Strong oxidizing agents. Carbon dioxide (CO ₂). Acid anhydrides. Acid chlorides. Mineral acids. Acids. Explosive reaction with osmium (VIII) oxide.
Hazardous decomposition product(s)	Carbon monoxide. Carbon dioxide (CO ₂). Nitrogen oxides (NO _x).

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Dermal contact. Eye contact. Inhalation. Ingestion.

Product:

Acute toxicity

LD50 (Oral): 1130 mg/kg (rat).
LD50 (Dermal): 400 – 640 mg/kg (rabbit).

Serious eye damage/eye irritation

Corrosive. Causes burns. May cause chemical conjunctivitis. May cause corneal injury. Avoid contact with eyes.

Respiratory or skin sensitization

Toxic by inhalation. Corrosive. Causes burns. Symptoms may be delayed. Causes chemical burns to the respiratory tract. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Aspiration may lead to pulmonary edema. May cause systemic effects. Inhalation of high concentrations may cause CNS depression and asphyxiation. Avoid breathing vapors or mist.

Ingestion

Toxic in contact with skin. Corrosive. Causes burns. Symptoms may be delayed. May cause cyanosis. May cause skin rash (in milder cases), and cold and clammy skin with cyanosis or pale color. Avoid contact with skin.

Toxic if swallowed. Causes burns. Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. May cause perforation of the digestive tract. May cause systemic effects. Do not ingest.

Carcinogenicity

Not to be expected.

NTP	IARC	ACGIH	OSHA
No.	No.	No.	No.

Reproductive toxicity

No data available.

STOT – repeated exposure

Avoid repeated exposure. Target Organ Effects: Eyes, Skin, Respiratory System, Blood.

Aspiration toxicity

No data available.

Experience with human exposure

No data available.

Toxicology, Metabolism, Distribution

No data available.

Neurological effects

No data available.

Further information

No data available.

SECTION 12: ECOLOGICAL INFORMATION

Product:

Ecotoxicity:

Aquatic ecotoxicity

LC50 (96 hr): >100 – 215 mg/l (Leuciscus idus (Golden orfe)).
EC50 (48 hr): 267.94 mg/l Daphnia magna (Water flea)).

Persistence/degradability

Not readily biodegradable.

Bioaccumulation/Accumulation

No data available.

Mobility in Soil

No data available.

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not Conducted.

Other adverse effects

Harmful effect due to pH shift. Forms corrosive mixtures with water even if diluted. When discharged properly, no impairments in the function of adapted biological wastewater treatment plants are to be expected. Discharge into the environment must be avoided. May be harmful to aquatic organisms due to the shift of the pH.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

Additional Information

None known.

SECTION 14: TRANSPORT INFORMATION

	Land transport (U.S. DOT) *	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN Number	UN2922	UN2922	UN2922
Proper Shipping Name	Corrosive liquid, toxic, n.o.s. (1-Methylimidazole)	Corrosive liquid, toxic, n.o.s. (1-Methylimidazole)	Corrosive liquid, toxic, n.o.s. (1-Methylimidazole)
Transport hazard class(es)	8 (6.1)	8 (6.1)	8 (6.1)
Packing group	II	II	II
Labels	 	 	 
Additional information	Emergency Response Guide Number 154	Emergency schedules (EMS) F-A, S-B	
Marine Pollutant	No.		

SECTION 15: REGULATORY INFORMATION

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

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	-----	-----	-----

SARA 311/312 - Hazard Categories:

☒ Fire ☐ Sudden Release ☐ Reactivity ☒ Immediate (acute) ☒ Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None	-----	-----

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)	TPQ (Pounds)
None	-----	-----	-----	-----

Proposition 65 (California): This product contains no chemicals at levels known to the State of California to cause cancer or reproductive hazards.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1 - 16.

Date of preparation: July 08, 2021

Hazard Statement(s) Listed in: SECTION 3

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

Additional Information: None.

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