

Safety Data Sheet

Issuing Date 30-Sep-2014 Revision Date 29-Sep-2014 Revision Number 2

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Name HEPES Free Acid

Product Code(s) 30487-VA, 30487-VI, 30487-VE

Recommended Use For Further Manufacturing Use Only

Synonyms HEPES * 4-(2-HYDROXYETHYL)-1-PIPERAZINEETHANESULFONIC ACID

Company

VWR International, LLC, 6351 Inducon Drive East, Sanborn, NY 14132

Emergency Telephone Number Chemtrec 1-800-424-9300

Company Phone Number 1-800-932-5000 chemicals@vwr.com

HAZARDS IDENTIFICATION

GHS - Classification

Classification Not classified as a hazard

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
1-Piperazineethanesulfonic acid, 4-(2-hydroxyethyl)-	230-907-9	Not available	7365-45-9	90-100	-

4. FIRST AID MEASURES

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated

clothes and shoes.

Inhalation Move to fresh air. If not breathing, give artificial respiration.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties Not flammable.

Flash Point No information available

Suitable Extinguishing Media Dry chemical, CO2, water spray or regular foam.

Hazardous Combustion Products Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides.

Explosion Data

Sensitivity to Mechanical Impact
Sensitivity to Static Discharge
Not sensitive.
Not sensitive.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent) and

full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure

adequate ventilation.

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area

and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practice.

Hygroscopic.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

Hygroscopic.

Incompatible Products Strong oxidizing agents.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures Showers

Eyewash stations Ventilation systems.

Personal Protective Equipment

Eye/Face Protection
Skin and Body Protection
Respiratory Protection

Safety glasses with side-shields. Wear protective gloves/clothing.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

Lower No data available

9. PHYSICAL AND CHEMICAL PROPERTIES

AppearanceFine whiteOdorOdorless

Odor Threshold
Decomposition Temperature °C
Freezing Point
Initial Boiling Point
No information available
No information available
No information available
No information available

Physical State Powder

pH No data available

Flash Point No information available

Autoignition TemperatureNo data availableBoiling Point/RangeNo data available

Melting Point/Range 234 °C

Flammability Limits in Air Upper No data available

Explosive PropertiesOxidizing Properties
No information available
No information available

Evaporation Rate

MMHG @ 37.8 C

Vapor Density

Specific Gravity

Solubility

Water-soluble
Water Solubility

Vapor Density

No data available
Water-soluble
Water Solubility

Water Solubility

No data available
No data available
No data available

(n-octanol/water)

Viscosity No information available

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.

Incompatible Products Strong oxidizing agents.

Conditions to Avoid Protect from moisture. Keep way from heat, sparks, and open flames.

Hazardous Decomposition Products Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides.

Hazardous Polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Unknown Acute Toxicity

Product Information Product does not present an acute toxicity hazard based on known or supplied information.

Chronic Toxicity

Chronic Toxicity No known effect based on information supplied.

Target Organ Effects None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations.

Contaminated Packaging Dispose of in accordance with all federal, state and local regulations.

14. TRANSPORT INFORMATION

IATA Not regulated

DOT Not regulated

15. REGULATORY INFORMATION

REACH Title VII Restrictions No information available.

Chemical Name	Dangerous Substances	l	organic Organic	Subst Whose Are Indica	mful tances Names to be ited on Label	Pollution Release Transfor Registry (G	and er	Pollution Release and Transfer Registry (Clas I):	Substances
1-Piperazineethanesulfo nic acid, 4-(2-hydroxyethyl)-	Not applicable	Not	applicable	Not ap	plicable	Not applic	able	Not applicable	e Not applicable
Component	ISHA - Harm Substance Prohibited f Manufacturi Importing Transferring Supplying	es for ng, l, l, or	ISHA - Ha Substar Requir Permis	nces	Class Listing	Chemical sification g (TCCL) - Chemicals		xic Release entory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II
1-Piperazineethanesulfor c acid, 4-(2-hydroxyethyl) 7365-45-9 (90-100)	ni Not applicat	_	Not appli	cable	Not a	pplicable	No	t applicable	Not applicable

International Inventories

TSCA Complies EINECS/ELINCS Complies

ENCS Does not Comply
IECSC Complies
KECL Does not Comply

KECL Does not complies
AICS Complies
Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

International Regulations

Mexico - Grade No information available.

Canada

WHMIS Hazard Class

Non-controlled

16. OTHER INFORMATION

Issuing Date 30-Sep-2014

Revision Date 29-Sep-2014

Revision Note

No information available

Recommended Restrictions No information available

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS