# BDH WWR ANALYTICAL

# SAFETY DATA SHEET

Issuing Date 20-Jul-2012 Revision Date 10-Feb-2015 Revision Number 2

# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Name HYDROXYLAMINE HCL

Other means of identification

Product Code(s) BDH9236-1KG : BDH9236-500G

**UN-No** 2923

**Synonyms** No information available.

Recommended use of the chemical and restrictions on use

Recommended Use For Laboratory Use Only. Not for Drug, Food, or Household use.

Uses advised against Not for Human or Animal Drug Use

Details of the supplier of the safety data sheet

Company Address VWR International, LLC Radnor Corporate Center 100 Matsonford Road Radnor, PA 19087-8660

**Company Phone Number** 610-386-1700 **E-mail Address** www.vwr.com

**Emergency Telephone Number** 

Emergency Telephone Number CHEMTREC 800.424.9300 CANUTEC 613.996.6666

# 2. HAZARDS IDENTIFICATION

# Classification

**OSHA Regulatory Status** 

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute Toxicity - Oral	Category 4
Acute Toxicity - Dermal	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Skin Sensitization	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2

#### Label elements

Warning

Emergency Overvie	}W	

#### **Hazard Statements**

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H351 - Suspected of causing cancer

H373 - May cause damage to organs through prolonged or repeated exposure



Appearance White

Physical State Powder

Odor No information available

#### **Precautionary Statements**

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P272 - Contaminated work clothing should not be allowed out of the workplace

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P281 - Use personal protective equipment as required

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water

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

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P312 - Call a POISON CENTER or doctor if you feel unwell

P314 - Get medical advice/attention if you feel unwell

P321 - Specific treatment (see supplemental first aid instructions on this label)

P322 - Specific measures (see supplemental first aid instructions on this label)

P330 - Rinse mouth

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P337 + P313 - If eye irritation persists: Get medical advice/attention

P362 - Take off contaminated clothing and wash before reuse

P363 - Wash contaminated clothing before reuse

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

Very toxic to aquatic life

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	EC No.	Weight %	Trade Secret
Hydroxylamine hcl	5470-11-1	226-798-2	95-100	Not applicable

# 4. FIRST AID MEASURES

**First Aid Measures** 

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

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

shoes. Consult a physician if necessary.

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

**Ingestion** Clean mouth with water and afterwards drink plenty of water. Consult a physician.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available.

# **Specific Hazards Arising from the Chemical**

Fine powder is capable of creating a dust explosion. Containers may explode when heated.

**Hazardous Combustion** 

**Products** 

Nitrogen oxides (NOx). Hydrogen Chloride gas.

**Explosion Data** 

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

#### **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, protective equipment and emergency procedures

**Personal Precautions** Ensure adequate ventilation, especially in confined areas.

**Environmental Precautions** 

**Environmental Precautions** See Section 12 for additional Ecological information.

Methods and material for containment and cleaning up

**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

**Precautions for Safe Handling** 

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

Hygroscopic.

Conditions for safe storage, including any incompatibilities

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

sensitive.

**Incompatible Products** Strong oxidizing agents. Heavy Metals.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydroxylamine hcl	-	-	

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Avoid contact with eyes. Safety glasses with side-shields.

**Skin and Body Protection** Wear protective gloves/clothing.

Respiratory Protection 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.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical State Powder Appearance White

AppearanceWhiteOdorNo information availableColorNo information availableOdor ThresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

**pH** 2.5 - 3.5 (50 g/l @ 20 C)

Melting point/freezing point 152 - 157 °C

Boiling Point/Range

Flash Point (High in °C)

Evaporation Rate

Flammability (solid, gas)

No information available.

No information available

No information available

Flammability Limit in Air

Upper flammability limit:

Lower flammability limit:

No information available.

No information available.

Vapor pressureNo information available.Vapor DensityNo information available.Specific GravityNo information availableWater SolubilityNo information availableSolubility in other solventsNo information available.Partition coefficientNo information available

**Autoignition Temperature** 

Decomposition TemperatureNo information availableKinematic viscosityNo information availableDynamic viscosityNo information availableExplosive PropertiesNo information availableOxidizing PropertiesNo information available

**Other Information** 

Softening Point
Molecular Weight
VOC Content
Density
No information available.
No information available.
No information available.
No information available
No information available

# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### **Chemical Stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

Corrosive to metals.

# **Conditions to Avoid**

Extremes of temperature and direct sunlight.

## **Incompatible Materials**

Strong oxidizing agents. Heavy Metals.

# **Hazardous Decomposition Products**

Nitrogen oxides (NOx). Hydrogen chloride gas.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

Product Information Toxic if swallowed Product is harmful by skin contact Irritating to eye, skin and respiratory

system Sensitizer

**Inhalation** There is no data available for this product.

**Eye Contact** There is no data available for this product.

**Skin Contact** There is no data available for this product.

**Ingestion** There is no data available for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydroxylamine hcl	= 141 mg/kg (Rat)	-	-
5470-11-1			

#### Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

SensitizationNo information available.Mutagenic EffectsNo information available.CarcinogenicityNo information available.

Chemical Name	ACGIH	IARC	NTP	OSHA
Hydroxylamine hcl	-	-	-	-
5470-11-1				

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
No information available.
No information available.

Chronic Toxicity Causes damage to organs through prolonged or repeated exposure. Suspected

carcinogen.

Target Organ Effects Blood, Central nervous system (CNS).

Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document . 600

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Hydroxylamine hcl	-	-	-
5470-11-1			

# **Persistence and Degradability**

No information available.

#### Bioaccumulation/Accumulation

No information available.

Chemical Name	Log Pow
Hydroxylamine hcl 5470-11-1	-

Other Adverse Effects No information available

# 13. DISPOSAL CONSIDERATIONS

## Waste treatment methods

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

**Contaminated Packaging** Do not re-use empty containers.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Hydroxylamine hcl 5470-11-1	-	-	-	-

Chemical Name	California Hazardous Waste Status
Hydroxylamine hcl 5470-11-1	-

# **14. TRANSPORT INFORMATION**

DOT

**UN-No** 2923

Proper Shipping Name CORROSIVE SOLID, TOXIC, N.O.S. (CONTAINS HYDROXYLAMINE HYDROCHLORIDE)

Hazard Class 8
Subsidiary Class 6.1
Packing Group III

<u>IATA</u>

UN-No 2923

Proper Shipping Name CORROSIVE SOLID, TOXIC, N.O.S. (CONTAINS HYDROXYLAMINE HYDROCHLORIDE)

Hazard Class 8
Subsidiary Class 6.1
Packing Group III

# 15. REGULATORY INFORMATION

**International Inventories** 

Complies **TSCA DSL/NDSL** Complies Complies **EINECS/ELINCS** Complies **ENCS** Complies **IECSC** Complies **KECL** Complies **PICCS AICS** Complies

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### 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.

Component	SARA 313 - Threshold Values %
Hydroxylamine hcl	-
5470-11-1 ( 95-100 )	

### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
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)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydroxylamine hcl 5470-11-1	-	-	-	-

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Hydroxylamine hcl 5470-11-1	-	-	-

# **U.S. State Regulations**

# **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

Chemical Name	California Prop. 65	
Hydroxylamine hcl - 5470-11-1	-	

#### **U.S. State Right-to-Know Regulations**

	Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ī	Hydroxylamine hcl 5470-11-1	-	-	-

#### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

#### Canada

#### **WHMIS Hazard Class**

E Corrosive material D1B Toxic materials D2B Toxic materials



#### 16. OTHER INFORMATION

Issuing Date 20-Jul-2012
Revision Date 10-Feb-2015
Revision Note

No information available

Disclaimer

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regerd to appropriate safety precautions. It does not represent any guarantee of the properties of the product. VWR International and its Affiliates shall not be held liable for any damage resulting from handling.

**End of Safety Data Sheet**