according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 24, 2018

# **1** Identification Product identifier · Trade name: Sodium Hydroxide, 2.0N · Product code: AR-1082-60 Recommended use and restriction on use · Recommended use: Laboratory chemicals Restrictions on use: No relevant information available. • Details of the supplier of the Safety Data Sheet · Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 Phone: (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com **Distributor:** Aqua Analytics 245 Matheson Blvd East, Units 1 & 2 Mississauga, Ontario Canada L4Z 3C9 (888) 712-4000 · Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International) 2 Hazard(s) identification · Classification of the substance or mixture Met. Corr.1 H290 May be corrosive to metals. Skin Corr. 1A H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. <sup>•</sup> Label elements · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms: GHS05

Signal word: Danger
Hazard statements: H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage.
Precautionary statements: P234 Keep only in original container. P260 Do not breathe mist/vapors/spray. P264 Wash thoroughly after handling.

(Cont'd. on page 2)

>90%

<10%

# Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 24, 2018

Trade name: Sodium Hydroxide, 2.0N

P280	(Cont'd. of page ' Wear protective gloves/protective clothing/eye protection.
	31 If swallowed: Rinse mouth. Do NOT induce vomiting.
	53 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin wit water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P3	38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards There are no other hazards not otherwise classified that have been identified.

# 3 Composition/information on ingredients

#### · Chemical characterization: Mixtures

· Components:

7732-18-5 Water

1310-73-2 Sodium hydroxide

Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318

· Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

# 4 First-aid measures

## <sup>•</sup> Description of first aid measures

· After inhalation: Supply fresh air; consult doctor in case of complaints.

#### · After skin contact:

Immediately remove any clothing soiled by the product.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

Seek immediate help for blistering or open wounds.

#### · After eye contact:

Protect unharmed eye. Remove contact lenses if worn. Rinse opened eye for several minutes under running water. Then consult a doctor. · After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help. Most important symptoms and effects, both acute and delayed: Cramp Strong caustic effect on skin and mucous membranes. Gastric or intestinal disorders when ingested.

(Cont'd. on page 3)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 24, 2018

#### Trade name: Sodium Hydroxide, 2.0N

(Cont'd. of page 2)

Nausea in case of ingestion.

· Danger:

Danger of gastric perforation.

Causes serious eye damage.

Indication of any immediate medical attention and special treatment needed:

Medical supervision for at least 48 hours.

## **5** Fire-fighting measures

#### • Extinguishing media

Suitable extinguishing agents:

The product is not flammable.

Use fire fighting measures that suit the environment.

• For safety reasons unsuitable extinguishing agents: None.

• Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

<sup>•</sup> Advice for firefighters

#### · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

#### 6 Accidental release measures

#### • Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Particular danger of slipping on leaked/spilled product.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

#### **Environmental precautions**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Inform respective authorities in case of seepage into water course or sewage system.

#### Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable receptacles.

#### **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

#### <sup>·</sup> Handling

## • Precautions for safe handling:

Prevent formation of aerosols. Avoid splashes or spray in enclosed areas. Use only in well ventilated areas.

(Cont'd. on page 4)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 24, 2018

Trade name: Sodium Hydroxide, 2.0N

(Cont'd. of page 3)

Avoid breathing mist, vapors, or spray. Avoid contact with the eyes and skin. • Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities
 Requirements to be met by storerooms and receptacles:

 Use only receptacles specifically permitted for this substance/product.
 Unsuitable material for receptacle: aluminium.
 Unsuitable material for receptacle: steel.
 Unsuitable material for receptacle: glass or ceramic.

 Information about storage in one common storage facility:

 Store away from foodstuffs.
 Do not store together with acids.
 Store away from oxidizing agents.
 Store away from metals.

 Specific end use(s) No relevant information available.

# 8 Exposure controls/personal protection

### <sup>•</sup> Control parameters

· Components with limit values that require monitoring at the workplace:

1310-73-2 Sodium h	vdroxide
--------------------	----------

PEL (USA)	Long-term value: 2 mg/m <sup>3</sup>
REL (USA)	Ceiling limit value: 2 mg/m <sup>3</sup>
TLV (USA)	Ceiling limit value: 2 mg/m <sup>3</sup>
EL (Canada)	Ceiling limit value: 2 mg/m <sup>3</sup>
EV (Canada)	Ceiling limit value: 2 mg/m <sup>3</sup>
LMPE (Mexico)	Long-term value: 2 mg/m <sup>3</sup> Ceiling limit value: 2 mg/m <sup>3</sup>

#### • Exposure controls

#### · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

• Engineering controls: No relevant information available.

#### Breathing equipment:

Not required under normal conditions of use.

Use suitable respiratory protective device when aerosol or mist is formed.

For spills, respiratory protection may be advisable.

# Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Cont'd. on page 5)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 24, 2018

Trade name: Sodium Hydroxide, 2.0N

(Cont'd. of page 4)

• Eye protection:



Safety glasses

 $\cdot$  Body protection: Alkaline resistant protective clothing

- Limitation and supervision of exposure into the environment No relevant information available.
- · Risk management measures No relevant information available.

9 Physical and chemical prope	erties	
· Information on basic physical a	and chemical properties	
Appearance:		
Form:	Liquid	
Color:	Colorless	
· Odor:	Odorless	
· Odor threshold:	Not determined.	
· pH-value:	>12	
<ul> <li>Melting point/Melting range:</li> </ul>	Not determined.	
<ul> <li>Boiling point/Boiling range:</li> </ul>	Not determined.	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not applicable.	
· Auto-ignition temperature:	Not determined.	
· Decomposition temperature:	Not determined.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
· Oxidizing properties:	Not determined.	
· Vapor pressure:	Not determined.	
· Density:		
Relative density:	1.0-1.2	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octanol/wa	ter): Not determined.	
·Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other information	No relevant information available.	

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 24, 2018

Trade name: Sodium Hydroxide, 2.0N

(Cont'd. of page 5)

## 10 Stability and reactivity

· Reactivity: No relevant information available.

• Chemical stability: Stable under normal temperatures and pressures.

· Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

#### <sup>•</sup> Possibility of hazardous reactions

Exothermic reaction with acids.

Corrosive action on metals.

Attacks materials containing glass and silicate.

Reacts with metals forming hydrogen.

· Conditions to avoid Avoid acids.

· Incompatible materials Strong acids

· Hazardous decomposition products Possible in traces.

## 11 Toxicological information

<sup>•</sup> Information on toxicological effects

• Acute toxicity: Based on available data, the classification criteria are not met.

### · LD/LC50 values that are relevant for classification:

1310-73-2 Sodium hydroxide

Oral LD50 2000 mg/kg (rat)

#### Primary irritant effect:

· On the skin: Strong caustic effect on skin and mucous membranes.

· On the eye: Strong caustic effect.

· Sensitization: No sensitizing effects known.

#### · IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

#### • NTP (National Toxicology Program):

None of the ingredients are listed.

#### OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

#### · Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

· Germ cell mutagenicity: Based on available data, the classification criteria are not met.

- Carcinogenicity: Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- · STOT-single exposure: Based on available data, the classification criteria are not met.
- · STOT-repeated exposure: Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 24, 2018

Trade name: Sodium Hydroxide, 2.0N

(Cont'd. of page 6)

## 12 Ecological information

- <sup>·</sup> Toxicity
- · Aquatic toxicity No relevant information available.
- Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- Mobility in soil: No relevant information available.
- Ecotoxical effects:
- **Remark:** After neutralization a reduction of the harming action may be recognized
- <sup>•</sup> Additional ecological information
- · General notes:
- Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Other adverse effects No relevant information available.

## **13 Disposal considerations**

#### <sup>•</sup> Waste treatment methods

#### · Recommendation:

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

#### <sup>·</sup> Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information		
<sup>·</sup> UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	UN1824	
<ul> <li><sup>•</sup> UN proper shipping name</li> <li><sup>•</sup> DOT, IATA</li> <li><sup>•</sup> ADR/RID/ADN, IMDG</li> </ul>	Sodium hydroxide solution SODIUM HYDROXIDE SOLUTION	
<ul> <li>Transport hazard class(es)</li> <li>DOT</li> </ul>		
CONSULT CONSULT 8		
		(Cont'd. on page 8)

Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 24, 2018

Trade name: Sodium Hydroxide, 2.0N	
	(Cont'd. of page 7)
Class	8
·Label	8
·Class	8 (C5)
	8
Class	8
·Label	8
<ul> <li>Packing group</li> <li>DOT, ADR/RID/ADN, IMDG, IATA</li> </ul>	II
<ul> <li>Environmental hazards</li> <li>Marine pollutant:</li> </ul>	No
Special precautions for user	Warning: Corrosive substances
<ul> <li>Danger code (Kemler):</li> <li>EMS Number:</li> </ul>	80 F-A,S-B
· Segregation groups	Alkalis
<ul> <li>Transport in bulk according to Annex I MARPOL73/78 and the IBC Code</li> </ul>	l of Not applicable.
15 Regulatory information	
<ul> <li>Safety, health and environmental regression in the second s</li></ul>	ulations/legislation specific for the substance or
Section 302 (extremely hazardous substand	ces):
None of the ingredients are listed.	
Section 355 (extremely hazardous substand	ces):
None of the ingredients are listed.	
Section 313 (Specific toxic chemical listing	s):
None of the ingredients are listed.	
TSCA (Toxic Substances Control Act)	
1310-73-2 Sodium hydroxide	
7732-18-5 Water	(Cont'd. on page 9)

Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 24, 2018

Treade is a sec		
rade nam	e: Sodium Hydroxide, 2.0N	
	(Cont'd. of p	bage 8
· Propos	ion 65 (California)	•
-	Is known to cause cancer:	
	he ingredients are listed.	
· Chemic	Is known to cause developmental toxicity for females:	
	he ingredients are listed.	
· Chemic	Is known to cause developmental toxicity for males:	
	he ingredients are listed.	
· Chemic	Is known to cause developmental toxicity:	
	he ingredients are listed.	
· EPA (E	vironmental Protection Agency):	
•	he ingredients are listed.	
· IARC (I	ternational Agency for Research on Cancer):	
•	he ingredients are listed.	
· Canadi	n Domestic Substances List (DSL):	
	he ingredients are listed.	
	-	
	Toquel realures and shall not establish a regain valid contractual relationship.	
	product features and shall not establish a legally valid contractual relationship. ations and acronyms: pean Agreement concerning the International Carriage of Dangerous Goods by Road	
ADR: Eur IMDG: Int	ations and acronyms: pean Agreement concerning the International Carriage of Dangerous Goods by Road rnational Maritime Code for Dangerous Goods	
ADR: Eur IMDG: Int DOT: US IATA: Inte	ations and acronyms: pean Agreement concerning the International Carriage of Dangerous Goods by Road rnational Maritime Code for Dangerous Goods pepartment of Transportation national Air Transport Association	
ADR: Eur IMDG: Int DOT: US IATA: Inte CAS: Che	ations and acronyms: bean Agreement concerning the International Carriage of Dangerous Goods by Road rnational Maritime Code for Dangerous Goods lepartment of Transportation national Air Transport Association nical Abstracts Service (division of the American Chemical Society)	
ADR: Eur IMDG: Inf DOT: US IATA: Inte CAS: Che LC50: Le LD50: Le	ations and acronyms: pean Agreement concerning the International Carriage of Dangerous Goods by Road rnational Maritime Code for Dangerous Goods lepartment of Transportation national Air Transport Association nical Abstracts Service (division of the American Chemical Society) al concentration, 50 percent al dose, 50 percent	
ADR: Eur IMDG: Int DOT: US IATA: Int CAS: Che LC50: Le LD50: Le OSHA: O Met. Corr	ations and acronyms: pean Agreement concerning the International Carriage of Dangerous Goods by Road mational Maritime Code for Dangerous Goods pepartment of Transportation national Air Transport Association nical Abstracts Service (division of the American Chemical Society) al concentration, 50 percent al dose, 50 percent cupational Safety & Health Administration : Corrosive to metals – Category 1	
ADR: Eur IMDG: Int DOT: US IATA: Inte CAS: Che LC50: Le OSHA: O Met. Corr Skin Corr	Ations and acronyms: Deean Agreement concerning the International Carriage of Dangerous Goods by Road rnational Maritime Code for Dangerous Goods Department of Transportation national Air Transport Association nical Abstracts Service (division of the American Chemical Society) al concentration, 50 percent al dose, 50 percent Supational Safety & Health Administration : Corrosive to metals – Category 1 1A: Skin corrosion/irritation – Category 1A	
ADR: Eur IMDG: Int DOT: US IATA: Inte CAS: Che LC50: Le OSHA: O Met. Corr Skin Corr Eye Dam • <b>Source</b>	Ations and acronyms: pean Agreement concerning the International Carriage of Dangerous Goods by Road mational Maritime Code for Dangerous Goods pepartment of Transportation national Air Transport Association nical Abstracts Service (division of the American Chemical Society) al concentration, 50 percent al dose, 50 percent cupational Safety & Health Administration : Corrosive to metals – Category 1 1A: Skin corrosion/irritation – Category 1 1: Serious eye damage/eye irritation – Category 1	
ADR: Eur IMDG: Int DOT: US IATA: Inte CAS: Che LD50: Le OSHA: O Met. Corr Skin Corr Eye Dam • <b>Source</b> Website	Ations and acronyms: pean Agreement concerning the International Carriage of Dangerous Goods by Road mational Maritime Code for Dangerous Goods pepartment of Transportation national Air Transport Association nical Abstracts Service (division of the American Chemical Society) al concentration, 50 percent al dose, 50 percent cupational Safety & Health Administration : Corrosive to metals – Category 1 1A: Skin corrosion/irritation – Category 1A 1: Serious eye damage/eye irritation – Category 1 European Chemicals Agency (echa.europa.eu)	ıom
ADR: Eur IMDG: Int DOT: US IATA: Inte CAS: Che LD50: Le OSHA: O Met. Corr Skin Corr Eye Dam <b>Source</b> Website OVerview	Ations and acronyms: pean Agreement concerning the International Carriage of Dangerous Goods by Road rnational Maritime Code for Dangerous Goods pepartment of Transportation national Air Transport Association nical Abstracts Service (division of the American Chemical Society) al concentration, 50 percent al dose, 50 percent cupational Safety & Health Administration : Corrosive to metals – Category 1 1A: Skin corrosion/irritation – Category 1A I: Serious eye damage/eye irritation – Category 1 European Chemicals Agency (echa.europa.eu) , US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/h /home.do)	nom
ADR: Eur IMDG: Int DOT: US IATA: Inte CAS: Che LC50: Le OSHA: O Met. Corr Skin Corr Eye Dam <b>Source</b> Website Website Overview	Ations and acronyms: pean Agreement concerning the International Carriage of Dangerous Goods by Road rmational Maritime Code for Dangerous Goods lepartment of Transportation national Air Transport Association nical Abstracts Service (division of the American Chemical Society) al concentration, 50 percent al dose, 50 percent cupational Safety & Health Administration : Corrosive to metals – Category 1 1A: Skin corrosion/irritation – Category 1A I: Serious eye damage/eye irritation – Category 1 European Chemicals Agency (echa.europa.eu) , US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/h /home.do) Chemical Abstracts Registry, American Chemical Society (www.cas.org)	า๐ฑ
ADR: Eur IMDG: Int DOT: US IATA: Inte CAS: Che LC50: Le DS1: Le OSHA: O Met. Corr Skin Corr Eye Dam <b>Source</b> Website Website Overview Website Patty's	Ations and acronyms: pean Agreement concerning the International Carriage of Dangerous Goods by Road rnational Maritime Code for Dangerous Goods pepartment of Transportation national Air Transport Association nical Abstracts Service (division of the American Chemical Society) al concentration, 50 percent al dose, 50 percent cupational Safety & Health Administration : Corrosive to metals – Category 1 1A: Skin corrosion/irritation – Category 1A I: Serious eye damage/eye irritation – Category 1 European Chemicals Agency (echa.europa.eu) , US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/h /home.do)	
ADR: Eur IMDG: Int DOT: US IATA: Inte CAS: Che LD50: Le OSHA: O Met. Corr Skin Corr Eye Dam <b>Source</b> Website Website Overvie Website Patty's Casare 978-0-0	Ations and acronyms: bean Agreement concerning the International Carriage of Dangerous Goods by Road rnational Maritime Code for Dangerous Goods lepartment of Transportation national Air Transport Association nical Abstracts Service (division of the American Chemical Society) al concentration, 50 percent al dose, 50 percent cupational Safety & Health Administration : Corrosive to metals – Category 1 1A: Skin corrosion/irritation – Category 1A 1: Serious eye damage/eye irritation – Category 1 European Chemicals Agency (echa.europa.eu) , US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/h /home.do) Chemical Abstracts Registry, American Chemical Society (www.cas.org) dustrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., I -176923-5.	
ADR: Eur IMDG: Int DOT: US IATA: Inte CAS: Che LD50: Le OSHA: O Met. Corr Skin Corr Eye Dam <b>Source</b> Website Overview Website Patty's Casare 978-0-0 Safety [	Ations and acronyms: been Agreement concerning the International Carriage of Dangerous Goods by Road rnational Maritime Code for Dangerous Goods lepartment of Transportation national Air Transport Association nical Abstracts Service (division of the American Chemical Society) al concentration, 50 percent audotes, 50 percent supational Safety & Health Administration : Corrosive to metals – Category 1 A: Skin corrosion/irritation – Category 1A I: Serious eye damage/eye irritation – Category 1 European Chemicals Agency (echa.europa.eu) , US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/h /home.do) Chemical Abstracts Registry, American Chemical Society (www.cas.org) dustrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., I -176923-5. ata Sheets, Individual Manufacturers	
ADR: Eur IMDG: Int DOT: US IATA: Inte CAS: Che LC50: Le OSHA: O Met. Corr Skin Corr Eye Dam <b>Source</b> Website Overview Website Patty's I Casare 978-0-0 Safety I SDS Pr	Ations and acronyms: been Agreement concerning the International Carriage of Dangerous Goods by Road mational Maritime Code for Dangerous Goods bepartment of Transportation national Air Transport Association nical Abstracts Service (division of the American Chemical Society) al concentration, 50 percent al dose, 50 percent supational Safety & Health Administration : Corrosive to metals – Category 1 A: Skin corrosion/irritation – Category 1 European Chemicals Agency (echa.europa.eu) , US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/h /home.do) Chemical Abstracts Registry, American Chemical Society (www.cas.org) dustrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., I -176923-5. ata Sheets, Individual Manufacturers pared by:	
ADR: Eur IMDG: Int DOT: US IATA: Inte CAS: Che LC50: Le OSHA: O Met. Corr Skin Corr Eye Dam <b>Source</b> Website Overview Website Patty's Casare 978-0-0 Safety I SDS Pr ChemT	Ations and acronyms: been Agreement concerning the International Carriage of Dangerous Goods by Road mational Maritime Code for Dangerous Goods bepartment of Transportation national Air Transport Association nical Abstracts Service (division of the American Chemical Society) al concentration, 50 percent al dose, 50 percent supational Safety & Health Administration : Corrosive to metals – Category 1 A: Skin corrosion/irritation – Category 1 European Chemicals Agency (echa.europa.eu) , US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/h /home.do) Chemical Abstracts Registry, American Chemical Society (www.cas.org) dustrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., I -176923-5. ata Sheets, Individual Manufacturers pared by:	
ADR: Eur IMDG: Int DOT: US IATA: Inte CAS: Che LC50: Le OSHA: O Met. Corr Skin Corr Eye Dam <b>Source</b> Website Website Overview Website Patty's Casare 978-0-0 Safety I SDS Pr ChemT 1305 No Tampa,	Ations and acronyms: pean Agreement concerning the International Carriage of Dangerous Goods by Road mational Maritime Code for Dangerous Goods lepartment of Transportation national Air Transport Association nical Abstracts Service (division of the American Chemical Society) al concentration, 50 percent al dose, 50 percent supational Safety & Health Administration : Corrosive to metals – Category 1 A: Skin corrosion/irritation – Category 1A I: Serious eye damage/eye irritation – Category 1 European Chemicals Agency (echa.europa.eu) US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/h /home.do) Chemical Abstracts Registry, American Chemical Society (www.cas.org) dustrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., I -176923-5. ata Sheets, Individual Manufacturers pared by: IInc. th Florida Avenue Florida Avenue Florida USA 33602-2902	
ADR: Eur IMDG: Int DOT: US IATA: Inte CAS: Che LC50: Le OSHA: O Met. Corr Skin Corr Eye Dam <b>Source</b> Website Website Overview Website Patty's Casare 978-0-0 Safety I SDS Pr ChemT 1305 Ne Tampa, Toll Fre	Ations and acronyms: Deen Agreement concerning the International Carriage of Dangerous Goods by Road mational Maritime Code for Dangerous Goods lepartment of Transport Association national Air Transport Association ical Abstracts Registry Services (of Mpub.epa.gov/sor internet/registry/substreg/h /home.do) Chemical Abstracts Registry, American Chemical Society (www.cas.org) dustrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., I -176923-5. ata Sheets, Individual Manufacturers pared by: Inc. th Florida Avenue	