

SAFETY DATA SHEET

1. Identification			
Product identifier	Sodium Hypchlorite, 10-15% Solution		
Other means of identification			
SDS number	AUC-004		
Synonyms	Aqua Guard Chlorinating Sanitizer * Aqua G	uard Bleach * Aqua Guard Sodium Hypochlorite 10.5%	
	* Aqua Guard Sodium Hypochlorite 12.5% *	Sodium Hypochlorite * Liquid Bleach * Bleach * Hypo	
Recommended use	Swimming pool chemical, hard surface clear towers, laundry sanitizer, bleach solutions a	ner, water treatment, bleaching, textiles, cooling nd agricultural/ aquacultural purposes.	
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier	/Distributor information		
Manufacturer			
Company name	Allied Universal Corporation		
Address	3901 N.W. 115th Avenue		
	Miami, FL 33178		
	United States		
Telephone	General: 1-305-888-		
W/	24-Hour alert: 1-786-522-	0207	
Website E-mail	www.allieduniversal.com Not available.		
Contact person	Operations Department		
Emergency phone number		9300 (US/Canada)	
Emergency phone number		7-3887 (International)	
Supplier	Refer to Manufacturer		
2. Hazard(s) identification			
		Cotosomul	
Physical hazards	Corrosive to metals	Category 1	
Health hazards	Skin corrosion/irritation	Category 1	
	Serious eye damage/eye irritation	Category 1	
	Specific target organ toxicity, single exposur	e Category 3 respiratory tract irritation	
Environmental hazards	This mixture does not meet the classificatior	o criteria according to OSHA HazCom 2012.	
OSHA defined hazards		n criteria according to OSHA HazCom 2012.	
Label elements		-	
Label elements	\wedge		
Signal word	Danger		
•	May be corrosive to metals. Causes severe	skin burns and eve damage. May cause	
Hazard statement	respiratory irritation.	skin bund and eye damage. May badde	
Precautionary statement			
Prevention	Keep only in original container. Do not breat	he mist. Wash thoroughly after handling. Use only	
	outdoors or in a well-ventilated area.	······································	
	Wear protective gloves/clothing and eye/fac	ce protection.	

Response	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: 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. Specific treatment (see this label). Wash contaminated clothing before reuse.
Storage	Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store in corrosive resistant container with a resistant inner liner.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	No OSHA defined hazard classes. Other hazards which do not result in classification: Contact with most acids may liberate and toxic gas. Chronic skin contact with low concentrations may cause dermatitis.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

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Chemical name	Common name and synonyms	CAS number	% 10-15.5
Sodium Hypochlorite	HYPOCHLORITE SOLUTION	7681-52-9	
Sodium hydroxide Caustic soda Lye Soda lye		1310-73-2	1-5
Other components below reportable levels			80-90

Other components below reportable levels

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, trained personnel should give oxygen. Call a physician or poison control center immediately. Skin contact Immediately flush skin with running water for at least 20 minutes. Take off immediately all contaminated clothing. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse. Cover wound with sterile dressing. Do not rub area of contact. Leather and shoes that have been contaminated with the solution may need to be destroyed. Eye contact Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately. Take care not to rinse contaminated water into the unaffected eye or onto the face. Ingestion Call a physician or poison control center immediately. If swallowed: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to a victim who is unconscious or is having convulsions. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Most important Corrosive to the eves and may cause severe damage including blindness. Symptoms may include symptoms/effects, acute and stinging, tearing, redness, swelling, and blurred vision. Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring. Can cause severe respiratory delayed irritation. Symptoms may include coughing, choking and wheezing. Inhalation could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include abdominal pain, vomiting, burns, perforations, bleeding and eventually death. Indication of immediate Immediate medical attention is required. Causes chemical burns. Treat symptomatically. medical attention and special treatment needed **General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. 5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide. Use water with caution. Contact with water will generate considerable heat.

Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire. Do not use dry chemical extinguishing agents that contain ammonium compounds. Use chemical extinguishing agents with caution. Some chemical extinguishing agents may react with this material.
Specific hazards arising from the chemical	Not considered flammable. Vapors are heavier than air and may spread along floors. Contact with most metals will generate flammable hydrogen gas. Contact with water will generate considerable heat. Reacts violently with a wide variety of organic and inorganic chemicals including alcohol, carbides, chlorates, picrates, nitrates and metals. Toxic fumes, gases or vapors may evolve on burning.
Special protective equipment and precautions for firefighters	Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. A full-body chemical resistant suit should be worn.
Fire fighting equipment/instructions	Fight fire with normal precautions from a reasonable distance. Evacuate the area promptly. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Vapors are heavier than air and may spread along floors.
Hazardous combustion products	Hydrogen gas. Hydrogen chloride. Chlorine. Oxygen. Sodium oxides.
6. Accidental release meas	sures
Personal precautions, protective equipment and emergency procedures	Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Ventilate the area. Remove sources of ignition. Stop leak if you can do so without risk. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewers, basements or confined areas. Remove with vacuum trucks or pump to storage/salvage vessels. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand). Small spills can be neutralized by covering with a reducing agent, such as Sodium thiosulfate or Sodium sulphite. If not recoverable, dilute with water or flush to holding area and neutralize.

Never return spills to original containers for re-use. Contact the proper local authorities. Contaminated absorbent material may pose the same hazards as the spilled product. For waste disposal, see Section 13.

Environmental precautions Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Use only outdoors or in a well-ventilated area. Wear protective gloves/clothing and eye/face protection. Label containers appropriately. When using, do not eat, drink or smoke. Do not taste or swallow. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Avoid ultraviolet (UV) light sources. Inspect periodically for damage or leaks. Store in corrosive resistant container with a resistant inner liner. Store in original tightly closed container. Keep container tightly closed. Store in a well-ventilated place. Store away from and do not mix with incompatible materials such as acids, oxidizers, organics, reducing agents and all metals except titanium. Keep away from food, drink and animal feed-stuffs.

8. Exposure controls/personal protection

Oc	cupational exposure limits		
	US. OSHA Table Z-1 Limits for Air Contar	ninants (29 CFR 1910.1000)	
	Components	Туре	Value
	Sodium hydroxide (CAS 1310-73-2)	PEL	2 mg/m3

US. ACGIH Threshold Limit Components	Values Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3
US. NIOSH: Pocket Guide to	o Chemical Hazards	
Components	Туре	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3
US. Workplace Environmer	tal Exposure Level (WEEL) Guides	
Components	Туре	Value
SODIUM HYPOCHLORITE (CAS 7681-52-9)	STEL	2 mg/m3
Biological limit values	No biological exposure limits noted for	the ingredient(s).
Appropriate engineering controls	should be matched to conditions. If app or other engineering controls to maintal exposure limits have not been establish wash facilities and emergency shower	ir changes per hour) should be used. Ventilation rates blicable, use process enclosures, local exhaust ventilation, in airborne levels below recommended exposure limits. If hed, maintain airborne levels to an acceptable level. Eye must be available when handling this product.
-	, such as personal protective equipmer	
Eye/face protection	Chemical goggles and face shield are r must be available when handling this p	ecommended. Eye wash facilities and emergency shower roduct.
Skin protection		
Hand protection	Wear appropriate chemical-resistant gl	oves. Advice should be sought from glove suppliers.
Other		resistant gloves, a chemical suit, rubber boots, and eld. Use of an impervious apron is recommended.
Respiratory protection	Chemical respirator with organic vapor cartridge and full facepiece. A NIOSH/MSHA approved air-purifying respirator with the appropriate chemical cartridges or a positive-pressure, air-supplied respirator may be used to reduce exposure. Respirators should be selected based on the form an concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134). Advice should be sought from respiratory protection specialists.	
Thermal hazards	Wear appropriate thermal protective clo	othing, when necessary.
General hygiene considerations	When using, do not eat, drink or smoke. Do not breathe mist. Avoid contact with eyes, skin and clothing. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.	

9. Physical and chemical properties

Appearance	Clear yellow liquid.
Physical state	Liquid.
Form	Liquid.
Color	Clear to yellow.
Odor	Pungent. Chlorine-like.
Odor threshold	Not available.
рН	11 - 13
Melting point/freezing point	7.52 °F (-13.6 °C)
Initial boiling point and boiling range	> 104 °F (> 40 °C)
Flash point	Not Applicable
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	losive limits
Flammability limit - lower (%)	Not Applicable
Flammability limit - lower (%) temperature	Not Applicable

Flammability limit - upper (%)	Not Applicable
Flammability limit - upper (%) temperature	Not Applicable
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	12 mm Hg
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.18 g/cm3
Molecular formula	NaOCI
Molecular weight	74.4
Specific gravity	1.18

10. Stability and reactivity

Reactivity	Contact with most metals will generate flammable hydrogen gas. Contact with water will generate considerable heat. Reacts with amines and ammonia compounds to form explosively unstable compounds. May be corrosive to metals. May be corrosive to: Aluminum, stainless steel, carbon steel, copper, bronze.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Reacts vigorously or violently with many organic and inorganic chemicals such as: acids, acrolein, acrylonitrile, chlorinated hydrocarbons (e.g. 1,2 dichloroethylene), chlorine dioxide, maleic anhydride, nitroethane, nitroparaffins, 2-nitrophenol, nitropropane, phosphorus, potassium persulfate, and tetrahydrofuran (containing peroxides).
Conditions to avoid	Direct sources of heat. Avoid high temperatures. Direct sunlight. Avoid contact with incompatible materials. Do not use in areas without adequate ventilation. Do not allow evaporation to dryness.
Incompatible materials	Metals. Strong oxidizing agents. Acids. Amines. Ammonia. Reducing agents. Nitrites. Organic compounds.
Hazardous decomposition products	None known, refer to hazardous combustion products in Section 5. In the event of fire the following can be released: Chlorine. Sodium chlorate.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful. May cause irritation to the respiratory system. May cause severe irritation to the nose, throat, and respiratory tract.	
Skin contact	Causes severe skin burns.	
Eye contact	Causes serious eye damage.	
Ingestion	Causes digestive tract burns. Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract.	
Most important symptoms/effects, acute and delayed	Corrosive to the eyes and may cause severe damage including blindness. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring. Can cause severe respiratory irritation. Symptoms may include coughing, choking and wheezing. Inhalation could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include abdominal pain, vomiting, burns, perforations, bleeding and eventually death.	

Information on toxicological effects

Not expected to be hazardous by OSHA criteria. There is no available data for the product itself, only for the ingredients. See data for individual ingredient acute toxicity data.

Components	Species		Test Results	
Sodium hydroxide (CAS 1310-73	-2)			
Acute				
Dermal				
LD50	Rabbit		No Data in Literature	
Inhalation				
LC50	Rat		No Data in Literature	
Oral	Det		No Doto in Literature	
LD50	Rat		No Data in Literature	
Sodium Hypochlorite (CAS 7681- Acute	-52-9)			
Dermal				
LD50	Rabbit		> 10000 mg/kg	
Inhalation				
LC50	Rat		> 5.25 mg/l/4h	
Oral				
LD50	Rat		8910 mg/kg	
		ditional component data not shown.		
Skin corrosion/irritation		/ OSHA criteria. n/irritiation -Category 1.		
	Causes seve			
Serious eye damage/eye		/ OSHA criteria.		
rritation		Serious eye damage/eye irritation - Category 1. Causes serious eye damage.		
Respiratory or skin sensitizatio	DU			
Respiratory sensitization	tion Not expected to be a respiratory sensitizer.			
Skin sensitizer	Not expected to be hazardous by OSHA criteria. Not expected to be a skin sensitizer.			
	May cause an allergic skin reaction (e.g. hives, rash) in some hypersensitive individuals.			
Germ cell mutagenicity	Not expected	to be mutagenic.		
Carcinogenicity	This product	is not considered to be a carcinogen b	y IARC, ACGIH, NTP, or OSHA.	
IARC Monographs. Overall	Evaluation of (Carcinogenicity		
Sodium Hypochlorite (C	,		to carcinogenicity to humans.	
OSHA Specifically Regulat	ed Substances	(29 CFR 1910.1001-1050)		
Not listed.				
Reproductive toxicity		is not expected to cause reproductive	or developmental effects.	
Specific target organ toxicity - single exposure		y OSHA criteria. spiratory irritation. Specific Target Org	an Toxicity (STOT), Single Exposure	
onigio orpodulo	Category 3.			
Specific target organ toxicity -	Not classified	as a specific target organ toxicity -rep	eated exposure.	
repeated exposure				
Aspiration toxicity	-	to be an aspiration hazard.		
Chronic effects	Prolonged inl dermatitis.	nalation may be harmful. Chronic skin	contact with low concentrations may cause	
12. Ecological informatio	n Because of th	ne nH of this product, it would be even	cted to produce significant acatovicity upon	
Ecotoxicity	Because of the pH of this product, it would be expected to produce significant ecotoxicity exposure to aquatic organisms and aquatic systems.			
Components	Species Test Results			
Sodium hydroxide (CAS 131	0-73-2)			
Aquatic				
Acute				
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	40 mg/l, 48 hours	

Components		Species	Test Results
Fish	LC50	Western mosquitofish (Gambusia at	ffinis) 125 mg/l, 96 hours
Sodium Hypochlorite (CAS 7681-52-9)		
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	0.169 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	0.58 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability	Biodegradation is not applicable to inorganic substances.
Bioaccumulative potential	No accumulation in living organisms is expected due to high solubility and dissociation properties.
Mobility in soil	High water solubility indicates a high mobility in soil.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT	
UN number	UN1791
UN proper shipping name	HYPOCHLORITE SOLUTIONS (RQ = 100)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
Packing group	III
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB3, N34, T4, TP2, TP24
Packaging exceptions	154
Packaging non bulk	203
Packaging bulk	241
ΙΑΤΑ	
UN number	UN1791
UN proper shipping name	HYPOCHLORITE SOLUTION
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	III
Environmental hazards	NO
ERG Code	8L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed.
aircraft	
Cargo aircraft only	Allowed.
IMDG	
UN number	UN1791
UN proper shipping name	HYPOCHLORITE SOLUTION

Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	No.
EmS	F-A, S-B
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not available.
Annex II of MARPOL 73/78 and	
the IBC Code	
DOT	
\land	



IATA; IMDG



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

	All components are on	the U.S. EFA ISCA Inven
TSCA Section 12(b) Export	Notification (40 CFR 70	7, Subpt. D)
Not regulated.		
CERCLA Hazardous Substa	ance List (40 CFR 302.4)	
Sodium hydroxide (CAS	1310-73-2)	Listed.
Sodium Hypochlorite (CAS 7681-52-9)		Listed.
SARA 304 Emergency relea	se notification	
Not regulated.		
OSHA Specifically Regulate	ed Substances (29 CFR	1910.1001-1050)
Not listed.		
Superfund Amendments and Re	eauthorization Act of 19	86 (SARA)
Hazard categories	Immediate Hazard - Ye Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	S
SARA 302 Extremely hazard	dous substance	
Not listed.		
SARA 311/312 Hazardous chemical	No	
SARA 313 (TRI reporting) Not regulated.		

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

US state regulations

- US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.
- US. Massachusetts RTK Substance List Sodium hydroxide (CAS 1310-73-2) Sodium Hypochlorite (CAS 7681-52-9)

US. New Jersey Worker and Community Right-to-Know Act

Sodium hydroxide (CAS 1310-73-2) Sodium Hypochlorite (CAS 7681-52-9)

US. Pennsylvania Worker and Community Right-to-Know Law

Sodium hydroxide (CAS 1310-73-2) Sodium Hypochlorite (CAS 7681-52-9)

US. Rhode Island RTK

Sodium hydroxide (CAS 1310-73-2) Sodium Hypochlorite (CAS 7681-52-9)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	01-06-2015
Version #	01
HMIS	H: 3 F: 0 R: 1
NFPA	H: 3 F: 0 R: 1
NSF.	Maximum use level for Sodium hypochlorite under NSF/ANSI Standard 60 - Maximum use in potable water is 84 mg/L for 12.5% bleach and 100 mg/L for 10.5% bleach.

Certified to NSF/ANSI 60

List of abbreviations	ACGIH: American Conference of Governmental Industrial
	Hygienists
	CAS: Chemical Abstract Services
	CERCLA: Comprehensive Environmental Response, Compensation and Liability Act of 1980 CFR: Code of Federal
	Regulations
	DOT: Department of Transportation
	DSL: Domestic Substance List
	EC: European Community
	EINECS: European Inventory of Existing Commercial chemical
	Substances
	EPA: Environmental Protection Agency
	EPCRA: Emergency Planning and Community Right-to-Know Act
	HSDB® - Hazardous Substances Data Bank
	IARC: International Agency for Research on Cancer
	IATA: International Air Transport Association
	IBC: Intermediate Bulk Container
	IMDG: International Maritime Dangerous Goods
	LC: Lethal Concentration
	LD: Lethal Dose
	NOEC: No observable effect concentration
	NTP: National Toxicology Program
	OECD: Organization for Economic Cooperation and Development
	OSHA: Occupational Safety and Health Administration
	PPE: Personal Protective Equipment
	RCRA: Resource Conservation and Recovery Act
	RTECS: Registry of Toxic Effects of Chemical Substances SARA:
	Superfund Amendments and Reauthorization Act
	SDS: Safety Data Sheet
	STEL: Short Term Exposure Limit
	TLV: Threshold Limit Values
	TWA: Time Weighted Average
	Prepared by: ICC The Compliance Center Inc. 1-888-442-9628 http://www.thecompliancecenter.com
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Bibliography	Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2014
	(Chempendium, RTECs, HSDB, INCHEM)
	European Chemicals Bureau, Existing Chemicals Work Area, EINECS Information System, 2014.
	Material Safety Data Sheet from manufacturer.
	OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2014.