Safety Data Sheet

Copper Beryllium Wrought Alloys

SECTION 1: PRODUCT DESCRIPTION

PRODUCT IDENTIFIER

Product form: Solid
Product Name: Copper Beryllium Wrought Alloy
Formula: BeCu
Synonyms: N/A

INTENDED USE OF PRODUCT

Use: Industrial; professional use only

EMERGENCY TELEPHONE NUMBER

CHEMTEL 24 HR Emergency number: 1-800-255-3924

SUPPLIER

SPIRA MANUFACTURING CORP.
650 JESSIE ST.
SAN FERNANDO, CA 91340
PH: 818-764-8222
FX: 818-764-9880

SECTION 2: HAZARD IDENTIFICATION

OSHA/HCS Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

DANGER

GHS CLASSIFICATION:

ACUTE TOXICITY (inhalation) - Category 4
RESPIRATORY SENSITIZATION - Category 1
SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 1B
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

SIGNAL WORD: DANGER

HAZARD STATEMENTS:

H332 - Harmful if inhaled.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 - May cause an allergic skin reaction.
H350 - May cause cancer.
H372 – May causes damage to organs through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS

PREVENTION:

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P281 - Use personal protective equipment as required.
P280 - Wear protective gloves.
P285 - In case of inadequate ventilation wear respiratory protection.
P271 - Use only outdoors or in a well-ventilated area.
P260 - Do not breathe dust.
P270 - Do not eat, drink or smoke when using this product.
P264 - Wash hands thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.

RESPONSE: P391 - Collect spillage.
P314 - Get medical attention if you feel unwell.
P308 + P313 - IF exposed or concerned: Get medical attention.
P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or physician.
P302 + P352 + P363 - IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.

STORAGE: P405 - Store locked up.

DISPOSAL: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC):
None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE/MIXTURE: MIXTURE
OTHER MEANS OF IDENTIFICATION: COPPER BERYLLIUM ALLOY
CAS NUMBER/OTHER IDENTIFIERS
CAS NUMBER: Not applicable
PRODUCT NUMBER: Not applicable

INGREDIENT NAME	%	CAS NUMBER
COPPER	66 - 98.1	7440-50-8
NICKEL	0 - 30	7440-02-0
COBALT	0 - 2.5	7440-50-8
BERYLLIUM	0.3 - 2.0	7440-02-0
ZIRCONIUM	0 - 0.3	7440-02-0

SECTION 4: FIRST AID MEASURES

General First-aid Measures: Never give an unconscious person anything by mouth. If you feel unwell, seek medical attention. (show label when possible)

INHALATION: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

EYES: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.

SKIN CONTACT: Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention for persistent irritation. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

INGESTION: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED POTENTIAL ACUTE HEALTH

EFFECTS EYE CONTACT: No known significant effects or critical hazards.

INHALATION: Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

SKIN CONTACT: May cause an allergic skin reaction.

INGESTION: No known significant effects or critical hazards.

OVER-EXPOSURE SIGNS/SYMPTOMS

EYE CONTACT: No known significant effects or critical hazards.

INHALATION: Adverse symptoms may include the following: wheezing and breathing difficulties asthma.

SKIN CONTACT: Adverse symptoms may include the following: irritation redness

INGESTION: No known significant effects or critical hazards.

INDICATIONS OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY

NOTES TO PHYSICIAN:

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Airborne particles of beryllium alloys can, if inhaled to excess, cause irreversible lung damage in people who are sensitive to beryllium. Prevention of this adverse health effect (called berylliosis or, more precisely, chronic beryllium disease) lies in maintaining good air quality.
Chronic beryllium disease is a condition that primarily affects the tissue of the lungs restricting the exchange of oxygen between the lungs and the bloodstream. The disease may manifest itself in various ways; nonproductive cough, fatigue after slight exertion, and chest x-ray changes are typical. It may appear after a long period of latency, an interval sometimes lasting for years, between causative exposure and the onset of illness. There is no cure yet known, but treatment with steroid drugs has succeeded in adding to the comfort of patients and enabling them to sustain a measure of activity.

SPECIFIC TREATMENTS: No specific treatment.

PROTECTION OF FIRST-SIDERS:

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

SECTION 5: FIRE FIGHTING PROCEDURES

EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA: Use Media suitable to extinguish surrounding fire.
UNSUITABLE EXTINGUISHING MEDIA: None Known

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: Not applicable
HAZARDOUS THERMAL DECOMPOSITION PRODUCTS: Decomposition products may include the following materials metal oxide/oxides.
SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTER: No special measures required
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEEDURES:

FOR NON EMERGENCY PERSONNEL:

Keep unnecessary and unprotected personnel from entering. Do not personnel: touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

FOR EMERGENCY RESPONDERS:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on unsuitable materials. See also the information “For non-emergency personnel”.

ENVIRONMENTAL PRECAUTIONS:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Collect spillage.

METHODS AND MATERIALS FOR CONTAINMENT

SPILL: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONSFOR SAFE HANDLING

PROTECTIVE MEASURES:

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

ADVICE ON GENERAL OCCUPATIONAL HYGIENE:

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures. Remove contaminated clothing and protective equipment before entering eating areas.

CONDITIONS FOR SAFE STORAGE INCLUDING INCOMPATIBILITIES:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8: PROTECTION INFORMATION

CONTROL PARAMETERS

OCCUPATIONAL EXPOSURE LIMITS

Ingredient name	Exposure limit
Copper	**ACGIH TLV (United States, 4/2014).** TWA: 1 mg/m³, (Cu) 8 hours. Form: Dusts and mists TWA: 0.2 mg/m³ 8 hours. Form: Fume **OSHA PEL (United States, 2/2013).** TWA: 1 mg/m³ 8 hours. Form: Dusts and mists TWA: 0.1 mg/m³ 8 hours. Form: Fume **NIOSH REL (United States, 10/2013).** TWA: 1 mg/m³, (Cu) 10 hours. Form: Dusts and mists
Nickel	**ACGIH TLV (United States, 4/2014).** TWA: 1.5 mg/m³ 8 hours. Form Inhalable fraction **NIOSH REL (United States, 10/2013).** TWA: 0.015 mg/m³, (Ni) 10 hours. **OSHA PEL (United States, 2/2013).** TWA: 1 mg/m³, (Ni) 8 hours.
Cobalt	**NIOSH REL (United States, 10/2013).** TWA: 0.05 mg/m³, (as Co) 10 hours. Form: Dust and fumes **ACGIH TLV (United States, 4/2014).** TWA: 0.02 mg/m³, (as Co) 8 hours. Form: Inorganic **OSHA PEL (United States, 2/2013).** TWA: 0.1 mg/m³, (as Co) 8 hours.
Beryllium	**ACGIH TLV (United States, 4/2014). Inhalation sensitizer.** TWA: 0.00005 mg/m³, (as Be) 8 hours. Form: Inhalable fraction **OSHA PEL Z2 (United States, 2/2013).** AMP: 25 µg/m³ 30 minutes. CEIL: 5 µg/m³ TWA: 2 µg/m³ 8 hours. **NIOSH REL (United States, 10/2013).** CEIL: 0.0005 mg/m³, (as Be)

MEXICO

Ingredient name	Exposure limit
Copper	**NOM-010-STPS (Mexico, 9/2000).** LMPE-PPT: 1 mg/m³, (as Cu) 8 hours. Form: powder and fog LMPE-CT: 2 mg/m³, (as Cu) 15 minutes. Form: powder and fog LMPE-CT: 2 mg/m³, (as Cu) 15 minutes. Form: smoke LMPE-PPT: 0.2 mg/m³, (as Cu) 8 hours. Form: smoke
Nickel	**NOM-010-STPS (Mexico, 9/2000).** LMPE-PPT: 1 mg/m³ 8 hours.
Cobalt	**NOM-010-STPS (Mexico, 9/2000).** LMPE-PPT: 0.1 mg/m³, (as Co) 8 hours. Form: powder and smoke
Beryllium	**NOM-010-STPS (Mexico, 9/2000).** LMPE-PPT: 0.002 mg/m³, (as berilium) 8 hours.

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.

ENVIRONMENTAL EXPOSURE CONTROLS:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

INDIVIDUAL PROTECTION MEASURES

HYGIENE MEASURES:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

EYE/FACE PROTECTION:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

SKIN PROTECTION

HAND PROTECTION: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

BODY PROTECTION: Personal protective equipment for the body should be based on the task being performed and the risks involved.

OTHER SKIN PROTECTION: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed.

RESPIRATORY PROTECTION: Use NIOSH approved respiratory protection as specified by an Industrial Hygienist or qualified safety professional when airborne exposures exceed or have the potential to exceed occupational exposure limits.

SECTION 9: PHYSICAL DATA

Appearance

Physical state:	Solid
Color:	Copper
Odor:	None
Odor threshold:	Not applicable
pH:	Not applicable
Melting point:	1590 – 2010 F
Boiling point:	Not applicable
Flash point:	Not applicable
Evaporation rate:	Not applicable
Flammability (solid, gas):	Not applicable
Lower and upper explosive (flammable) limits:	Not Applicable
Vapor pressure:	Not applicable
Vapor density:	Not applicable
Relative density:	Not applicable
Solubility:	Not applicable
Partition coefficient n-octanol/water:	Not applicable
Auto-ignition temperature:	Not applicable
Decomposition temperature:	Not applicable
Viscosity:	Not applicable
Volatility:	Not applicable
VOC (w/w):	0 % (w/w)

SECTION 10: REACTIVITY DATA

REACTIVITY: No specific test data related to reactivity available for this product or its ingredients.

CHEMICAL STABILITY: Stable under recommended handling and storage conditions. (see section 7)

POSSIBILITY OF HAZARDOUS REACTIONS: Under normal conditions of storage and use, hazardous reactions will not occur.

CONDITIONS TO AVOID: No specific data.

INCOMPATABLE MATERIALS: Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.

HAZARDOUS DECOMPOSITION PRODUCTS: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY:

PRODUCT/INGREDIENT NAME	RESULTS	SPECIES	DOSE	EXPOSURE
Nickel	LC50 Inhalation Dusts and Mists	Rat	10.2 mg/L	1 hours
	LD50 Oral	Rat	>900 mg/kg	-

IRRITATION/CORROSION SENSITIZATION:

There is no data available. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction.

CARCINOGENICITY

CLASSIFICATION:

PRODUCT/INGREDIENT NAME	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
Nickel	-	2B	Reasonably anticipated to be a human carcinogen	A5	-	+
Cobalt	-	2B	-	A3	-	None
Beryllium	-	1	Known to be a human carcinogen	A1	-	+

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

NAME	CATEGORY	ROUTE OF EXPOSURE	TARGET ORGANS
Beryllium	Category 3	Not Applicable	Respiratory tract irritation

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)

NAME	CATEGORY	ROUTE OF EXPOSURE	TARGET ORGANS
Nickel	Category 1	Not Determined	Not Determined
Beryllium	Category 1	Not Determined	Not Determined

ASPIRATION HAXARD: There is no data available.

INFORMATION ON THE LIKELY ROUTES OF EXPOSURE: Dermal contact, eye contact, inhalation

POTENTIAL ACUTE HEALTH EFFECTS

EYE CONTACT: No known significant effects or critical hazards.

INHALATION: Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

SKIN CONTACT: May cause an allergic skin reaction.

INGESTION: No known significant effects or critical hazards.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

EYE CONTACT: No known significant effects or critical hazards.

INHALATION: Adverse symptoms may include the following: wheezing and breathing difficulties, asthma.

SKIN CONTACT: Adverse symptoms may include the following: irritation, redness

INGESTION: No known significant effects or critical hazards.

POTENTIAL DELAYED EFFECTS: Symptoms may be delayed.

POTENTIAL CHRONIC HEALTH EFFECTS

GENERAL: May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed. See section 4.

CARCINOGENICITY: May cause cancer. Risk of cancer depends on duration and level of exposure.

MUTAGENICITY: No known significant effects or critical hazards.

TERATOGENICITY: No known significant effects or critical hazards.

DEVELOPMENTAL EFFECTS: No known significant effects or critical hazards.

FERTILITY EFFECTS: No known significant effects or critical hazards.

NUMERICAL MEASURES OF TOXICITY

ACUTE TOXICITY ESTIMATES

ROUTE	ATE VALUE
Oral	7175.7 mg/kg
Inhalation (dusts and mists)	3.588 mg/L

SECTION 12: ECOLOGICAL DATA

ECOTOXICITY: No ecotoxicity data noted for the ingredients in solid metal form.

PERSISTANCE AND DEGRADABILITY: No data is available on the degradability of this product.

BIOACCUMILATIVE POTENTIAL: Not available.

MOBILITY IN SOIL: Not available.

OTHER ADVERSE EFFECTS: No known significant effects or critical hazards.

SECTION 13: DISPOSAL INFORMATION

DISPOSAL METHODS: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORT INFORMATION

DOT Not regulated for transport.

IATA Not regulated for transport.

IMDG Not regulated for transport.

SPECIAL PRECAUTIONS FOR USER: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS: United States inventory (TSCA 8b): All components are listed or exempted.

CLEAN AIR ACE SECTION 112(b) HAZARDOUS AIR POLLUTANTS (HAPs): Listed

CLEAN AIR ACE SECTION 602 CLASS I SUBSTANCES: Not Listed

CLEAN AIR ACT SECTION 602 CLASS II SUBSTANCES: Not Listed

DEA LIST I CHEMICALS (PRECURSOR CHEMICALS): Not Listed

SARA 302/304: Not Listed

SARA 311/312
COMPOSITION/INFORMATION ON INGREDIENTS

NAME	%	FIRE HAZARD	SUDDEN RELEASE OF PRESSURE	REACTIVE	IMMEDIATE (ACUTE) HEALTH HAZARD	DELAYED (CHRONIC) HEALTH HAZARD
Nickel	0 - 30	No	No	No	Yes	Yes
Cobalt	0 - 2.5	No	No	No	Yes	Yes
Beryllium	0.3 - 2.0	No	No	No	Yes	Yes

SARA 313

	PRODUCT NAME	CAS NUMBER	%
FORM R REPORTING REQUIREMENTS	Copper	7440-50-8	66 - 98.1
	Nickel	7440-02-0	0 - 30
	Cobalt	7440-48-4	0 - 2.5
	Beryllium	7440-41-7	0.3 - 2.0
SUPPLIER NOTIFICATION	Copper	7440-50-8	67 - 98.1
	Nickel	7440-02-0	0 - 30
	Cobalt	7440-48-4	0 - 2.5
	Beryllium	7440-41-7	0.3 - 2.0

STATE REGULATION
MASSACHUSETS: The following components are listed: Copper; Nickel; Cobalt; Beryllium
NEW YORK: The following components are listed: Copper; Nickel; Beryllium
NEW JERSEY: The following components are listed: Copper; Nickel; Cobalt; Beryllium
PENNSYLVANIA: The following components are listed: Copper; Nickel; Cobalt; Beryllium

CALIFORNIA PROP. 65
WARNING: This product contains a chemical known to the State of California to cause cancer.

INGREDIENT NAME	CANCER	REPRODUCTIVE	NO SIGNIFICANT RISK LEVEL	MAXIMUM ACCEPTABLE DOSAGE LEVEL
Nickel	Yes	No	No	No
Cobalt	Yes	No	No	No
Beryllium	Yes	No	Yes	No

INTERNATIONAL LISTS
NATIONAL INVENTORY
AUSTRALIA All components are listed or exempted.
CANADA All components are listed or exempted.
CHINA All components are listed or exempted.
EUROPE All components are listed or exempted.
JAPAN Not determined.
MALAYSIA Not determined.
NEW ZEALAND All components are listed or exempted.
PHILIPPINES All components are listed or exempted.
REPUBLIC OF KOREA All components are listed or exempted.
TAIWAN Not determined.

SECTION 16: ADDITIONAL INFORMATION

REVISED: NOV 2020

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Spira Manufacturing Corp. makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

GLOSSARY

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Service Number

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT: U.S. Department of Transportation

IARC: International Agency for Research on Cancer

N/A: Not Available

IDLH: Immediately dangerous to life and health

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

PPM: Parts per million

RCRA: Resource Conservation and Recovery Act

SARA: Superfund Amendments and Reauthorization Act

TLV: Threshold Limit Value

TSCA: Toxic Substances Control Act

END OF SDS