

## STAY/STEEL 316L Flake Standard Grade

Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2019
3.0	11/06/2023	102000002383	Date of first issue: 03/26/2018

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## SECTION 1. IDENTIFICATION

Product name : STAY/STEEL 316L Flake Standard Grade  
Product code : 046692BFL

**Manufacturer or supplier's details**

Company name of supplier : ECKART America Corporation  
Address : 830 East Erie Street  
Painesville OH 44077  
Telephone : 866-458-7837  
(440) 954-7600  
Telefax : (440) 354-6224  
e-mail adresse : info.eckart.america.oh@altana.com  
Emergency telephone : **CHEMTREC:** 800-424-9300  
**CHEMTREC:** 1-703-527-3387 (International)

**NCEC:**

(contract no. ECKART29003-NCEC)  
US: +1 866 928 0789 (Toll free)  
Canada: +1 800 579 7421 (Toll Free)  
Mexico: +52 55 5004 8763

## SECTION 2. HAZARDS IDENTIFICATION

**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Combustible dust

Skin sensitization : Category 1

Carcinogenicity : Category 2

Specific target organ toxicity : Category 1  
- repeated exposure  
(Inhalation)

**GHS label elements**

Hazard pictograms :



Signal Word : Danger

Hazard Statements : May form combustible dust concentrations in air.

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H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.  
H372 Causes damage to organs through prolonged or repeated exposure if inhaled.

## Precautionary Statements :

**Prevention:**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.

**Storage:**

P405 Store locked up.

**Disposal:**

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

Hazardous ingredients which must be listed on the label:

Nickel

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous ingredients**

Chemical name	CAS-No.	Concentration (% w/w)
Iron	7439-89-6	>= 70 - < 90

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Chromium	7440-47-3	$\geq 10 - < 20$
Nickel	7440-02-0	$\geq 5 - < 10$
Molybdenum	7439-98-7	$\geq 1 - < 5$
Manganese	7439-96-5	$\geq 1 - < 5$

Actual concentration is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Show this material safety data sheet to the doctor in attendance.
- If inhaled : Call a physician or poison control center immediately.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If on skin, rinse well with water.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : May cause an allergic skin reaction.  
Suspected of causing cancer.  
Causes damage to organs through prolonged or repeated exposure if inhaled.

## SECTION 5. FIRE-FIGHTING MEASURES

- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, : Use personal protective equipment.

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protective equipment and emergency procedures	:	Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.
General advice	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Keep in suitable, closed containers for disposal.

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**SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion	:	Avoid dust formation.
Advice on safe handling	:	Avoid formation of respirable particles. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.
Further information on storage stability	:	Keep in a dry place.

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Ingredients with workplace control parameters**

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Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Iron	7439-89-6	TWA (total dust)	50 Million particles per cubic foot	OSHA Z-3
		TWA (total dust)	15 mg/m3	OSHA Z-3
		TWA (respirable fraction)	5 mg/m3	OSHA Z-3
		TWA (respirable fraction)	15 Million particles per cubic foot	OSHA Z-3
Chromium	7440-47-3	TWA	0.5 mg/m3	NIOSH REL
		TWA	0.5 mg/m3	ACGIH
		TWA	1 mg/m3	OSHA P0
		TWA	0.5 mg/m3 (chromium)	OSHA Z-1
		TWA	1 mg/m3	OSHA P0
		TWA	0.5 mg/m3	NIOSH REL
		TWA	1 mg/m3 (chromium)	OSHA Z-1
		TWA	0.5 mg/m3 (chromium)	OSHA Z-1
		TWA	0.5 mg/m3 (chromium)	ACGIH
Nickel	7440-02-0	TWA	0.015 mg/m3 (Nickel)	NIOSH REL
		TWA (Inhalable particulate matter)	1.5 mg/m3	ACGIH
		TWA	1 mg/m3	OSHA P0
		TWA	1 mg/m3	OSHA P0
		TWA	1 mg/m3 (Nickel)	OSHA Z-1
		TWA	0.015 mg/m3 (Nickel)	NIOSH REL
		TWA (Inhalable particulate matter)	1.5 mg/m3	ACGIH

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Molybdenum	7439-98-7	TWA (Inhalable particulate matter)	10 mg/m3	ACGIH
		TWA (Respirable particulate matter)	3 mg/m3	ACGIH
		TWA (Inhalable particulate matter)	10 mg/m3 (Molybdenum)	ACGIH
		TWA (Respirable particulate matter)	3 mg/m3 (Molybdenum)	ACGIH
		TWA (total dust)	15 mg/m3 (Molybdenum)	OSHA Z-1
		TWA (Total dust)	10 mg/m3 (Molybdenum)	OSHA P0
Manganese	7439-96-5	TWA	0.2 mg/m3	ACGIH
		C (Fumes)	5 mg/m3	OSHA Z-1
		TWA (Fumes)	1 mg/m3 (Manganese)	NIOSH REL
		ST (Fumes)	3 mg/m3 (Manganese)	NIOSH REL
		TWA	1 mg/m3 (Manganese)	OSHA P0
		STEL	3 mg/m3 (Manganese)	OSHA P0
		TWA (Fumes)	1 mg/m3 (Manganese)	NIOSH REL
		ST (Fumes)	3 mg/m3 (Manganese)	NIOSH REL
		TWA (Inhalable particulate matter)	0.1 mg/m3 (Manganese)	ACGIH
		TWA (Respirable particulate matter)	0.02 mg/m3 (Manganese)	ACGIH
		TWA (Fumes)	1 mg/m3 (Manganese)	NIOSH REL
		ST (Fumes)	3 mg/m3	NIOSH REL

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			(Manganese)	
		TWA (Fumes)	1 mg/m <sup>3</sup> (Manganese)	OSHA P0
		STEL (Fumes)	3 mg/m <sup>3</sup> (Manganese)	OSHA P0

**Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Chromium	7440-47-3	Total chromium (chromium)	Urine	End of shift at end of workweek	0.7 µg/l	ACGIH BEI
Nickel	7440-02-0	Nickel (Nickel)	Urine	End of shift at end of workweek	5 µg/l	ACGIH BEI
		Nickel (Nickel)	Urine	End of shift at end of workweek	30 µg/l	ACGIH BEI

**Personal protective equipment**

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.  
 Use suitable breathing protection if workplace concentration requires.  
 In the case of dust or aerosol formation use respirator with an approved filter.  
 Dust safety masks are recommended when the dust concentration is more than 10 mg/m<sup>3</sup>.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Safety glasses

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
 Dust impervious protective suit  
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.  
 When using do not smoke.

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Wash hands before breaks and at the end of workday.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	powder
Color	:	silver
Odor	:	characteristic
Odor Threshold	:	No data available
pH	:	substance/mixture is non-soluble (in water)
Melting point/range	:	Not applicable
Boiling point/boiling range	:	Not applicable
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	combustible dust
 Burning number	:	 1
 Upper explosion limit / Upper flammability limit	:	 No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Density	:	8 g/cm3
 Bulk density	:	 0.24 - 0.39 kg/m3
Solubility(ies)	:	
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	No data available

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	No decomposition if stored and applied as directed. Dust may form explosive mixture in air.
 Conditions to avoid	:	 No data available

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Not classified based on available information.



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**Components:****Chromium:**

Acute oral toxicity : LD50 Oral: > 5,000 mg/kg

Acute inhalation toxicity : LC50: > 5.41 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

**Nickel:**

Acute oral toxicity : LD50 Oral: 9,000 mg/kg

**Molybdenum:**

Acute oral toxicity : LD50 Oral: > 2,000 mg/kg

Acute inhalation toxicity : LC50: ca. 2 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

**Manganese:**

Acute oral toxicity : LD50 Oral: > 2,000 mg/kg

Acute inhalation toxicity : LC50: 5.14 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

**Skin corrosion/irritation**

Not classified based on available information.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Respiratory or skin sensitization****Skin sensitization**

May cause an allergic skin reaction.

**Respiratory sensitization**

Not classified based on available information.

**Components:****Nickel:**

Result: May cause sensitization by skin contact.

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**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Suspected of causing cancer.

**Components:****Nickel:**

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

**IARC**

Group 1: Carcinogenic to humans

Nickel 7440-02-0

Group 2B: Possibly carcinogenic to humans

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP**

Reasonably anticipated to be a human carcinogen

Nickel 7440-02-0

**Reproductive toxicity**

Not classified based on available information.

**STOT-single exposure**

Not classified based on available information.

**STOT-repeated exposure**

Causes damage to organs through prolonged or repeated exposure if inhaled.

**Components:****Nickel:**

Routes of exposure: Inhalation

Assessment: Causes damage to organs through prolonged or repeated exposure.

**Aspiration toxicity**

Not classified based on available information.

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Further information

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## SECTION 12. ECOLOGICAL INFORMATION

## Ecotoxicity

Components:

## Chromium:

## Ecotoxicology Assessment

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

## Nickel:

## Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

## Persistence and degradability

No data available

## Bioaccumulative potential

No data available

## Other adverse effects

No data available

Components:

## Iron:

Additional ecological information : No data available

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## SECTION 13. DISPOSAL CONSIDERATIONS

## Disposal methods

Waste from residues	:	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. In accordance with local and national regulations.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. In accordance with local and national regulations.

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**SECTION 14. TRANSPORT INFORMATION****Domestic regulation****49 CFR**

Not regulated as a dangerous good

**49 CFR** : Not classified as dangerous in the meaning of transport regulations.

**International Regulations****UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

Remarks : Not classified as dangerous in the meaning of transport regulations.

**ADR** : Not classified as dangerous in the meaning of transport regulations.

**IATA-DGR** : Not classified as dangerous in the meaning of transport regulations.

**IMDG-Code** : Not classified as dangerous in the meaning of transport regulations.

Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

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**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know****CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)
Nickel	7440-02-0	100

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**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : No SARA Hazards  
Combustible dust  
Respiratory or skin sensitization  
Carcinogenicity  
Specific target organ toxicity (single or repeated exposure)

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

Chromium	7440-47-3	>= 10 - < 20 %
Nickel	7440-02-0	>= 5 - < 10 %
Manganese	7439-96-5	>= 1 - < 5 %

**Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

Chromium	7440-47-3	%
Nickel	7440-02-0	%
Manganese	7439-96-5	%

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

**Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

Chromium	7440-47-3	16.7 %
Nickel	7440-02-0	9.5 %

This product contains the following priority pollutants related to the U.S. Clean Water Act:

Chromium	7440-47-3	16.7 %
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Nickel	7440-02-0	9.5 %
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**US State Regulations****Massachusetts Right To Know**

Chromium	7440-47-3
Nickel	7440-02-0
Molybdenum	7439-98-7
Manganese	7439-96-5

**Massachusetts Right To Know**

Chromium	7440-47-3
Nickel	7440-02-0
Molybdenum	7439-98-7
Manganese	7439-96-5

**Pennsylvania Right To Know**

Iron	7439-89-6
Chromium	7440-47-3
Nickel	7440-02-0
Molybdenum	7439-98-7
Manganese	7439-96-5
Cobalt	7440-48-4

**Pennsylvania Right To Know**

Iron	7439-89-6
Chromium	7440-47-3
Nickel	7440-02-0
Molybdenum	7439-98-7
Manganese	7439-96-5

**New Jersey Right To Know**

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Iron	7439-89-6
Chromium	7440-47-3
Nickel	7440-02-0
Molybdenum	7439-98-7
Manganese	7439-96-5
Cobalt	7440-48-4

**California Prop. 65**

WARNING: This product can expose you to chemicals including lead and cadmium, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



WARNING: This product can expose you to chemicals including Nickel, Cobalt, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**California List of Hazardous Substances**

Iron	7439-89-6
Chromium	7440-47-3
Nickel	7440-02-0
Molybdenum	7439-98-7
Manganese	7439-96-5

**California Permissible Exposure Limits for Chemical Contaminants**

Iron	7439-89-6
Chromium	7440-47-3
Nickel	7440-02-0

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Molybdenum 7439-98-7

Manganese 7439-96-5

**The ingredients of this product are reported in the following inventories:**

DSL : All components of this product are on the Canadian DSL  
TSCA : All substances listed as active on the TSCA inventory

**TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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**SECTION 16. OTHER INFORMATION****Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)  
NIOSH REL : USA. NIOSH Recommended Exposure Limits  
OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)  
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants  
OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts  
ACGIH / TWA : 8-hour, time-weighted average  
NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek  
NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday  
OSHA P0 / TWA : 8-hour time weighted average  
OSHA P0 / STEL : Short-term exposure limit  
OSHA Z-1 / TWA : 8-hour time weighted average  
OSHA Z-1 / C : Ceiling  
OSHA Z-3 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP



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- Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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