

STAPA IL HYDROLANS 412 Aluminium Paste

Version Revision Date: SDS Number: Date of last issue: 08/28/2020 4.0 04/24/2023 102000024920 Date of first issue: 05/10/2018

SECTION 1. IDENTIFICATION

Product name STAPA IL HYDROLAN S 412 Aluminium Paste

Product code 022577GD0

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)

Flammable solids : Category 1

Eye irritation Category 2A

Specific target organ toxicity : Category 3 (Central nervous system)

- single exposure

GHS label elements

Hazard pictograms





Signal Word Danger

Hazard Statements H228 Flammable solid.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.



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Precautionary Statements : Prevention:

P210 Keep away from heat/ sparks/ open flames/

hot surfaces. No smoking.

P240 Ground/bond container and receiving

equipment.

P241 Use explosion-proof electrical/ ventilating/

lighting/ equipment.

P261 Avoid breathing dust.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ eye protection/ face

protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh

air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water

for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

attention.

P370 + P378 In case of fire: Use for extinction: Special

powder for metal fires.

P370 + P378 In case of fire: Use for extinction: Dry sand.

Storage:

P403 + P233 Store in a well-ventilated place. Keep

container tightly closed.

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:

2-Propanol

Solvent naphtha (petroleum), light arom.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients



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Aluminum	7429-90-5	>= 30 - < 50
2-Propanol	67-63-0	>= 20 - < 30
Silica	7631-86-9	>= 10 - < 20
Ethanol	64-17-5	>= 5 - < 10
Naphtha (petroleum), hydrotreated heavy	64742-48-9	>= 1 - < 5
Solvent naphtha (petroleum), light arom.	64742-95-6	>= 1 - < 5
1,2-Ethanediamine, N1-[3- (trimethoxysilyl)propyl]-	1760-24-3	>= 0.1 - < 1

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Take the victim into fresh air.

Move out of dangerous area.

Show this material safety data sheet to the doctor in

attendance.

If inhaled : Consult a physician after significant exposure.

If unconscious, place in recovery position and seek medical

advice.

In case of skin contact : Wash off immediately with soap and plenty of water.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Keep eye wide open while rinsing.

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.

Most important symptoms

and effects, both acute and

. ..

Causes serious eye irritation.

May cause drowsiness or dizziness.

delayed

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Dry sand

Special powder against metal fire

Unsuitable extinguishing

media

Water Foam

Carbon dioxide (CO2)

ABC powder

Specific hazards during fire

fighting

: Contact with water liberates extremely flammable gas

(hydrogen).



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Further information : Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Special protective equipment :

for fire-fighters

Use personal protective equipment.

Wear self-contained breathing apparatus for firefighting if

necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Evacuate personnel to safe areas.
Use personal protective equipment.
Use personal protective equipment.

Avoid dust formation.

Remove all sources of ignition.

Environmental precautions

The product should not be allowed to enter drains, water

courses or the soil.

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

Use mechanical handling equipment.

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Do not flush with water.

Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against :

fire and explosion

Earthing of containers and apparatuses is essential.

Take measures to prevent the build up of electrostatic charge.

Use explosion-proof equipment.

Avoid dust formation.

Keep away from open flames, hot surfaces and sources of

ignition.

Advice on safe handling : Keep away from heat and sources of ignition.

Avoid dust formation.

Ensure adequate ventilation.

Avoid formation of respirable particles.

Do not breathe vapors/dust.



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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.

Conditions for safe storage : Store in original container.

Keep containers tightly closed in a cool, well-ventilated place.

Keep container closed when not in use.

Keep away from sources of ignition - No smoking.

No smoking.

Keep container tightly closed in a dry and well-ventilated

place.

Electrical installations / working materials must comply with

the technological safety standards.

Technical : Protect from humidity and water.

measures/Precautions

Do not allow to dry.

Materials to avoid : Do not store together with oxidizing and self-igniting products.

Never allow product to get in contact with water during

storage.

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Further information on storage stability

No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Aluminum	7429-90-5	TWA (total dust)	50 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable)	5 mg/m3	NIOSH REL
		TWA (total dust)	15 mg/m3	OSHA Z-3
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (respirable fraction)	5 mg/m3	OSHA Z-3



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		TWA	15 Million	OSHA Z-3
		(respirable fraction)	particles per cubic foot	
		TWA (Respirable particulate matter)	1 mg/m3	ACGIH
		TWA	5 mg/m3 (Aluminum)	NIOSH REL
		TWA (Total)	15 mg/m3 (Aluminum)	OSHA P0
		TWA (Respirable fraction)	5 mg/m3 (Aluminum)	OSHA P0
		TWA (total dust)	15 mg/m3 (Aluminum)	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3 (Aluminum)	OSHA Z-1
		TWA (Total dust)	15 mg/m3 (Aluminum)	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3 (Aluminum)	OSHA P0
		TWA (welding fumes)	5 mg/m3 (Aluminum)	NIOSH REL
		TWA (pyro powders)	5 mg/m3 (Aluminum)	NIOSH REL
		TWA (Respirable particulate matter)	1 mg/m3 (Aluminum)	ACGIH
		TWA (Fumes)	5 mg/m3	OSHA P0
		TWA (powder)	5 mg/m3 (Aluminum)	OSHA P0
2-Propanol	67-63-0	TWA	200 ppm	ACGIH
		STEL TWA	400 ppm 400 ppm 980 mg/m3	ACGIH NIOSH REL
		ST	500 ppm 1,225 mg/m3	NIOSH REL
		TWA	400 ppm 980 mg/m3	OSHA Z-1



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		TWA	400 ppm 980 mg/m3	OSHA P0
		STEL	500 ppm 1,225 mg/m3	OSHA P0
Silica	7631-86-9	TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m3 /%SiO2 (Silica)	OSHA Z-3
		TWA	6 mg/m3 (Silica)	NIOSH REL
Ethanol	64-17-5	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m3	OSHA P0
		STEL	1,000 ppm	ACGIH
Naphtha (petroleum), hydrotreated heavy	64742-48-9	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	400 ppm 1,600 mg/m3	OSHA P0
Solvent naphtha (petroleum), light arom.	64742-95-6	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
		TWA	400 ppm 1,600 mg/m3	OSHA P0

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Samplin g time	Permissible concentratio	Basis
2-Propanol	67-63-0	Acetone	Urine	End of shift at end of workwee k	40 mg/l	ACGIH BEI

Personal protective equipment

Respiratory protection : Use suitable breathing protection if workplace concentration



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requires.

In the case of dust or aerosol formation use respirator with an

approved filter.

Hand protection

Material : Solvent-resistant gloves (butyl-rubber)

Remarks : Take note of the information given by the producer

concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the

danger of cuts, abrasion, and the contact time.

Recommended preventive skin protection Skin should be washed after contact. The suitability for a specific workplace should be discussed with the producers of the protective

gloves.

Eye protection : Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Long sleeved clothing

Safety shoes

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.

Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Pasty solid
Color : silver
Odor : solvent

Odor Threshold : No data available

pH : substance/mixture is non-soluble (in water)

Melting point/freezing point : No data available

Boiling point/boiling range : 82 - 83 °C

Flash point : 13 °C

Evaporation rate : No data available

Flammability (solid, gas) : The substance or mixture is a flammable solid with the



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category 1.

Auto-flammability : not auto-flammable

not auto-flammable No data available

No data available

Upper explosion limit / Upper

flammability limit

Lower explosion limit / Lower

flammability limit

Vapor pressure : No data available Relative density : No data available Density : 1.3 - 2.0 g/cm3

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n- : No data available

octanol/water

Autoignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available

Explosive properties : Not explosive Vapors may form explosive mixture with air.

Not explosive Vapors may form explosive mixture with air.

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 : Reacts with alkalis, acids, halogenes and oxidizing agents.

reactions Contact with acids and alkalis may release hydrogen.

Mixture reacts slowly with water resulting in evolution of

hydrogen.

Vapors may form explosive mixture with air. Stable under recommended storage conditions.

Conditions to avoid : Do not allow to dry.

Heat, flames and sparks.

Incompatible materials : Acids

Bases

Oxidizing agents

Highly halogenated compounds

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.



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Components:

2-Propanol:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Silica:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

(Mouse): 15,000 mg/kg

Acute inhalation toxicity : (Rat): 0.139 mg/l

Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Ethanol:

Acute oral toxicity : LD50 (Rat, male and female): 10,470 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): 124.7 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Method: OECD Test Guideline 403

Naphtha (petroleum), hydrotreated heavy:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): Test atmosphere: vapor

Remarks: An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum

achievable concentration.

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Solvent naphtha (petroleum), light arom.:

Acute oral toxicity : LD50 (Rat): 3,492 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 3,160 mg/kg

1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-:

Acute oral toxicity : LD50 (Rat): ca. 2,995 mg/kg



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Acute inhalation toxicity : LC50: 1.49 - 2.44 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Assessment: The component/mixture is moderately toxic after

short term inhalation.

Skin corrosion/irritation

Not classified based on available information.

Components:

Ethanol:

Result: No skin irritation

Remarks: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

2-Propanol:

Result: Eye irritation

Ethanol:

Result: Eye irritation

Remarks: Based on available data, the classification criteria are not met.

1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-:

Result: Corrosive

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-:

Result: May cause sensitization by skin contact.



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Germ cell mutagenicity

Not classified based on available information.

Components:

Naphtha (petroleum), hydrotreated heavy:

Germ cell mutagenicity - : Classified based on benzene content < 0.1% (Regulation (EC)

Assessment 1272/2008, Annex VI, Part 3, Note P)

Solvent naphtha (petroleum), light arom.:

Germ cell mutagenicity - : Classified based on benzene content < 0.1% (Regulation (EC)

Assessment 1272/2008, Annex VI, Part 3, Note P)

Carcinogenicity

Not classified based on available information.

Components:

Naphtha (petroleum), hydrotreated heavy:

Carcinogenicity - : Classified based on benzene content < 0.1% (Regulation (EC)

Assessment 1272/2008, Annex VI, Part 3, Note P)

Solvent naphtha (petroleum), light arom.:

Carcinogenicity - : Classified based on benzene content < 0.1% (Regulation (EC)

Assessment 1272/2008, Annex VI, Part 3, Note P)

IARC Group 1: Carcinogenic to humans

Ethanol 64-17-5

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 No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

May cause drowsiness or dizziness.



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Components:

2-Propanol:

Assessment: May cause drowsiness or dizziness.

Solvent naphtha (petroleum), light arom.:

Assessment: May cause respiratory irritation., May cause drowsiness or dizziness.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Components:

Naphtha (petroleum), hydrotreated heavy:

May be fatal if swallowed and enters airways.

Solvent naphtha (petroleum), light arom.:

May be fatal if swallowed and enters airways.

Further information

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Silica:

Toxicity to daphnia and other :

(Daphnia): 7,600 mg/l

aquatic invertebrates

Toxicity to algae : (Chlorella pyrenoidosa): 440 mg/l

Solvent naphtha (petroleum), light arom.:

Ecotoxicology Assessment

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

Persistence and degradability

No data available

Bioaccumulative potential

No data available



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Other adverse effects

No data available

Components:

Silica:

Additional ecological

information

: No data available

Naphtha (petroleum), hydrotreated heavy:

Additional ecological

: No data available

information

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not dispose of waste into sewer.

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.

Do not burn, or use a cutting torch on, the empty drum. In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

Domestic regulation

49 CFR

UN/ID/NA number : UN 1325

Proper shipping name : Flammable solids, organic, n.o.s.

(Aluminum pigment paste)

Class : 4.1 Packing group : II

Labels : FLAMMABLE SOLID

ERG Code : 133 Marine pollutant : no

International Regulations

IATA-DGR

UN/ID No. : UN 1325

Proper shipping name : Flammable solid, organic, n.o.s.

(Aluminium pigment paste)

Class : 4.1



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Packing group : II

Labels : Flammable Solid

Packing instruction (cargo : 448

aircraft)

Packing instruction : 445

(passenger aircraft)

IMDG-Code

UN number : UN 1325

Proper shipping name : FLAMMABLE SOLID, ORGANIC, N.O.S.

(Aluminium pigment paste)

Class : 4.1
Packing group : II
Labels : 4.1
EmS Code : F-G

S-G

Marine pollutant : no

Remarks : IMDG Code segregation group 15 - Powdered metals

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

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ
		(lbs)
Hydrochloric acid	7647-01-0	5000

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No. Componer	
		(lbs)
Hydrochloric acid	7647-01-0	5000

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 : Flammable (gases, aerosols, liquids, or solids)

Serious eye damage or eye irritation

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:



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Aluminum 7429-90-5 >= 30 - < 50 %

2-Propanol 67-63-0 >= 20 - < 30 %

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).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

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).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

2-Propanol 67-63-0 %

Ethanol 64-17-5 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Hydrochloric acid 7647-01-0 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Hydrochloric acid 7647-01-0 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307 This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

Aluminum 7429-90-5

2-Propanol 67-63-0

Silica 7631-86-9

Ethanol 64-17-5

Hydrochloric acid 7647-01-0

Pennsylvania Right To Know

Aluminum 7429-90-5

2-Propanol 67-63-0



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Silica 7631-86-9

Ethanol 64-17-5

Naphtha (petroleum), hydrotreated heavy 64742-48-9

Solvent naphtha (petroleum), light arom. 64742-95-6

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.



WARNING: This product can expose you to chemicals including Ethanol, 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.

California List of Hazardous Substances

Aluminum 7429-90-5

2-Propanol 67-63-0

Silica 7631-86-9

Ethanol 64-17-5

California Permissible Exposure Limits for Chemical Contaminants

Aluminum 7429-90-5

2-Propanol 67-63-0

Silica 7631-86-9

Ethanol 64-17-5

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

DSL This product contains one or several components that are not on the Canadian DSL nor NDSL.



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TSCA : On 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.

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 ACGIH / STEL : Short-term exposure limit

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-3 / TWA : 8-hour time weighted average

AllC - 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 - 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;



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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; NZloC - 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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