HYDROCHLORIC ACID 32%

UNIVERSAL Chemical Trading GmbH

Chemwatch: 48-4484 Version No: 8.1

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

Issue Date: 23/12/2022 Print Date: 03/11/2023 L.GHS.AUS.EN.E

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

Product name	HYDROCHLORIC ACID 32%
Chemical Name	Not Applicable
Synonyms	UNIVERSAL CHEMICAL TRADING GMBH HYDROCHLORIC ACID 32%, MURIATIC ACID, SPIRITS OF SALTS; Product code: 9178
Proper shipping name	HYDROCHLORIC ACID
Chemical formula	Not Applicable
Other means of identification	Not Available

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Acidifier, Chemical intermediate, Laboratory reagent, Pickling and anodising metals, scale remover.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	UNIVERSAL Chemical Trading GmbH
Address	Waldweg 4 Dollern 21739, Germany
Telephone	+49-1521-859-2917
Fax	+49-1521-859-2917
Website	https://uctr-gmbh.de/_
Email	Info@uctr-gmbh.de

Emergency telephone number

Association / Organisation	UNIVERSAL Chemical Trading GmbH						
Emergency telephone							
numbers	+49-1521-859-2917						
Other emergency telephone							
numbers	Not Available						

SECTION 2 Hazards identification

Classification of the substance or mixture

| HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	S6
Classification ^[1]	Skin Corrosion/Irritation Category 1B, Serious Eye Damage/Eye Irritation Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 4
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements

Hazard pictogram(s)



Danger Signal word

Hazard statement(s)

riazara otatomoni(o)	
H314	Causes severe skin burns and eye damage.
H413	May cause long lasting harmful effects to aquatic life.

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

P260	Do not breathe mist/vapours/spray.
P264	Wash all exposed external body areas thoroughly after handling.

Precautionary statement(s) Response

Chemwatch: **48-4484** Page **2** of **8** Issue Date: **23/12/2022**

HYDROCHLORIC ACID 32%

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

Precautionary statement(s) Storage

P405 Store locked up.

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

Substances

Version No: 8.1

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name				
7647-01-0	32	hydrochloric acid				
7732-18-5	balance	water				
Legend:	Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available					

SECTION 4 First aid measures

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: Immediately flush body and clothes with large amounts of water, using safety shower if available. Quickly remove all contaminated clothing, including footwear. Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. Transport to hospital, or doctor.
Inhalation	 If furnes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay.
Ingestion	 For advice, contact a Poisons Information Centre or a doctor at once. Urgent hospital treatment is likely to be needed. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Transport to hospital or doctor without delay.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

For acute or short term repeated exposures to strong acids:

- Airway problems may arise from laryngeal edema and inhalation exposure. Treat with 100% oxygen initially.
- Respiratory distress may require cricothyroidotomy if endotracheal intubation is contraindicated by excessive swelling
- Intravenous lines should be established immediately in all cases where there is evidence of circulatory compromise.
- > Strong acids produce a coagulation necrosis characterised by formation of a coagulum (eschar) as a result of the dessicating action of the acid on proteins in specific tissues.

INGESTION:

- Immediate dilution (milk or water) within 30 minutes post ingestion is recommended.
- ▶ DO NOT attempt to neutralise the acid since exothermic reaction may extend the corrosive injury.
- ▶ Be careful to avoid further vomit since re-exposure of the mucosa to the acid is harmful. Limit fluids to one or two glasses in an adult.
- Charcoal has no place in acid management.

Some authors suggest the use of lavage within 1 hour of ingestion.

SKIN:

- Skin lesions require copious saline irrigation. Treat chemical burns as thermal burns with non-adherent gauze and wrapping.
 - Deep second-degree burns may benefit from topical silver sulfadiazine.

EYE:

- Eye injuries require retraction of the eyelids to ensure thorough irrigation of the conjuctival cul-de-sacs. Irrigation should last at least 20-30 minutes. **DO NOT** use neutralising agents or any other additives. Several litres of saline are required.
- Cycloplegic drops, (1% cyclopentolate for short-term use or 5% homatropine for longer term use) antibiotic drops, vasoconstrictive agents or artificial tears may be indicated dependent on the severity of the injury.

Steroid eye drops should only be administered with the approval of a consulting ophthalmologist)

[Ellenhorn and Barceloux: Medical Toxicology]

SECTION 5 Firefighting measures

Extinguishing media

Water spray or fog.

Chemwatch: 48-4484 Page 3 of 8 Issue Date: 23/12/2022

HYDROCHLORIC ACID 32% Version No: 8.1

▶ Foam.

Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
Advice for firefighters	
Fire Fighting	HCl can liberate highly flammable hydrogen gas when in contact with certain metals. • Alert Fire Brigade and tell them location and nature of hazard. • Wear full body protective clothing with breathing apparatus.
Fire/Explosion Hazard	Not considered to be a significant fire risk. Decomposition may produce toxic fumes of: hydrogen chloride
HAZCHEM	2R

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up									
Minor Spills	 Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material. Check regularly for spills and leaks. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. 								
		Chemical Class:acidic compounds, inorganic For release onto land: recommended sorbents listed in order of priority.							
	TYPE	RANK	APPLI	CATIC	N C	COLLECTION	LIMITATIONS		
	LAND SPILL - SI	MALL							
	foamed glass	- pillows		1	throw	pitchfork	R, P, DGC, RT		
	expanded mineral - particulate		2	shove	l shovel	R, I, W, P, DGC	_		
	foamed glass - particulate			2	shove	l shovel	R, W, P, DGC		
	LAND SPILL - M	EDIUM							
	expanded min	eral -particul	ate	1	blower	skiploader	R, I, W, P, DGC		
Major Spills	foamed glass-	particulate		2	blower	skiploader	R, W, P, DGC		
	foamed glass	- particulate		3	throw	skiploader	R, W, P, DGC		
	Legend POC Note (feeting where record a consist dates								
DGC: Not effective where ground cover is dense R; Not reusable					51130				
	I: Not incinerable								
	P: Effectiveness reduced when rainy RT:Not effective where terrain is rugged								
	SS: Not for use within environmentally sensitive sites								
	W: Effectiveness reduced when windy Reference: Sorbents for Liquid Hazardous Substance Cleanup and Control;								
						150: Noyes Data (Corporation 1988		
	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. 								
		-							

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling	
Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs.
Other information	Store in original containers. Keep containers securely sealed.

Conditions for safe storage, including any incompatibilities						
Suitable container	DO NOT use aluminium or galvanised containers Lined metal can, lined metal pail/ can. Plastic pail. For low viscosity materials Drums and jerricans must be of the non-removable head type. Where a can is to be used as an inner package, the can must have a screwed enclosure.					
Storage incompatibility	Incompatible with oxidizing agents eg. hypochlorites, alkalis, most metals etc, alcohols and amines. Inorganic acids are generally soluble in water with the release of hydrogen ions. The resulting solutions have pH's of less than 7.0. Reacts vigorously with alkalis Reacts with mild steel, galvanised steel / zinc producing hydrogen gas which may form an explosive mixture with air.					

Page 4 of 8 HYDROCHLORIC ACID 32%

Issue Date: 23/12/2022 Print Date: 03/11/2023

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
UNIVERSAL Chemical Trading	hydrochloric acid	Hydrogen chloride	Not Available	Not Available	5 ppm / 7.5 mg/m3	Not Available
GmbH Exposure Standards						

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
hydrochloric acid	Not Available	Not Available	Not Available
hydrochloric acid	1.8 ppm	22 ppm	100 ppm

Ingredient	Original IDLH	Revised IDLH
hydrochloric acid	50 ppm	Not Available
water	Not Available	Not Available

MATERIAL DATA

Exposure controls

Appropriate engineering	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly		
controls	effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.		
Individual protection measures, such as personal protective equipment			
Eye and face protection	 Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent] Full face shield may be required for supplementary but never for primary protection of eyes. 		
Skin protection	See Hand protection below		
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots. 		
Body protection	See Other protection below		
Other protection	Overalls. PVC Apron.		

Respiratory protection

Type B-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

76b-p()

SECTION 9 Physical and chemical properties

Information on basic physica	I and chemical properties
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Appearance	Colourless to slightly yellow corrosive liquid with pungent	acidic odour; miscible with water.	
Physical state	Liquid	Relative density (Water = 1)	1.161
Odour	Not Available	Partition coefficient n- octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	<1	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	<-20	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	109	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	as for water	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	100
Vapour pressure (kPa)	2	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	1.3	VOC g/L	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	Contact with alkaline material liberates heat
Possibility of hazardous reactions	See section 7

HYDROCHLORIC ACID 32% Version No: 8.1 Print Date: 03/11/2023

Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

CTION 11 Toxicological info	ormation		
ormation on toxicological eff	ects		
Inhaled	Acidic corrosives produce respiratory tract irritation with coughing, choking and mucous membrane damage. Symptoms of exposure may include dizziness, headache, nausea and weakness. Hydrogen chloride (HCI) vapour or fumes present a hazard from a single acute exposure. Exposures of 1300 to 2000 ppm have been lethal to humans in a few minutes. Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may produce toxic effects; these may be fatal. Inhalation of the vapour is hazardous and may even be fatal		
Ingestion	Ingestion of acidic corrosives may produce circumoral burns with a distinct discolouration of the mucous membranes of the mouth, throat and oesophagus. Immediate pain and difficulties in swallowing and speaking may also be evident.		
Skin Contact	The material can produce chemical burns following direct contact with the skin. Skin contact with acidic corrosives may result in pain and burns; these may be deep with distinct edges and may heal slowly with the formation of scar tissue. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.		
Eye	The material can produce chemical burns to the eye following When applied to the eye(s) of animals, the material produce	ng direct contact. Vapours or mists n	ay be extremely irritating.
Chronic	Limited evidence suggests that repeated or long-term occup systems. Repeated or prolonged exposure to acids may result in the jaw. Bronchial irritation, with cough, and frequent attacks of Chronic minor exposure to hydrogen chloride (HCI) vapour and ulceration of the nasal mucous membranes. Repeated exposures of animals to concentrations of about	erosion of teeth, inflammatory and u bronchial pneumonia may ensue. or fume may cause discolouration or	cerative changes in the mouth and necrosis (rarely) of the erosion of the teeth, bleeding of the nose and gums;
LIVER COLL ORIO A OID 2007	TOXICITY	IRRITATION	
HYDROCHLORIC ACID 32%	Not Available	Not Available	
	TOXICITY [2]	IRRITATION	
hydrochloric acid	dermal (mouse) LD50: 1449 mg/kg ^[2] Oral (Rat) LD50: 900 mg/kg ^[2]	Eye (rabbit): 5	
nydrocinone acid	Oral (Rat) LD50: 900 mg/kg ¹⁻³		ffect observed (irritating) ^[1]
			iffect observed (corrosive) ^[1] iffect observed (irritating) ^[1]
		Skin: adverse	meet observed (irmating): 3
water	TOXICITY	IRRITATION	
Water	Oral (Rat) LD50: >90000 mg/kg ^[2]	Not Available	
Legend:	Value obtained from Europe ECHA Registered Substance extracted from RTECS - Register of Toxic Effect of chemical extractions.	•	from manufacturer's SDS. Unless otherwise specified da
HYDROCHLORIC ACID 32%	Inhalation (Rat) LC50: 4.2-4.7 mg/l/1h		
HYDROCHLORIC ACID	Asthma-like symptoms may continue for months or even ye known as reactive airways dysfunction syndrome (RADS) w for acid mists, aerosols, vapours Data from assays for genotoxic activity in vitro suggest that from the respiratory tract have not been examined in this re: The material may be irritating to the eye, with prolonged cor conjunctivitis. The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans.	which can occur after exposure to hig eukaryotic cells are susceptible to g spect.	n levels of highly irritating compound. enetic damage when the pH falls to about 6.5. Cells
HYDROCHLORIC ACID &	Evidence of carcinogenicity may be inadequate or limited in No significant acute toxicological data identified in literature	-	
WATER			
Acute Toxicity Skin	×	Carcinogenici	
Irritation/Corrosion	~	Reproductivi	у 🗶
Serious Eye Damage/Irritation	~	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×

Legend:

Aspiration Hazard

X – Data either not available or does not fill the criteria for classification

— Data available to make classification

sensitisation Mutagenicity

Chemwatch: **48-4484** Page **6** of **8** Issue Date: **23/12/2022**

HYDROCHLORIC ACID 32%

Toxicity

Version No: 8.1

HYDROCHLORIC ACID 32%	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
hydrochloric acid	LC50	96h	Fish	334.734mg/L	4
	EC50(ECx)	9.33h	Fish	0.51mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
water	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	database - Aqu		A Registered Substances - Ecotoxicological Inform dazard Assessment Data 6. NITE (Japan) - Biocond		Ecotox

Prevent, by any means available, spillage from entering drains or water courses. **DO NOT** discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
hydrochloric acid	LOW	LOW
water	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
hydrochloric acid	LOW (LogKOW = 0.5392)

Mobility in soil

Ingredient	Mobility
hydrochloric acid	LOW (KOC = 14.3)

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal

- ▶ Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.
- Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.

SECTION 14 Transport information

Labels Required



Land transport (ADG)

14.1. UN number or ID number	1789		
14.2. UN proper shipping name	HYDROCHLORIC ACID		
14.3. Transport hazard class(es)	Class 8 Subsidiary Hazard Not Applicable		
14.4. Packing group	II .		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	Special provisions Not Applicable Limited quantity 1 L		

Air transport (ICAO-IATA / DGR)

14.1. UN number	1789	
14.2. UN proper shipping	Hydrochloric acid	
name		

Print Date: 03/11/2023

14.3. Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subsidiary Hazard ERG Code	8 Not Applicable	
14.4. Packing group			
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	Special provisions Cargo Only Packing Instructions Cargo Only Maximum Qty / Pack Passenger and Cargo Packing Instructions		A3 A803 855 30 L 851 1 L
	Passenger and Cargo Limited Quantity Packing Instructions		Y840
	Passenger and Cargo Limited Maximum Qty / Pack		0.5 L

Sea transport (IMDG-Code / GGVSee)

14.1. UN number	1789		
14.2. UN proper shipping name	HYDROCHLORIC ACID		
14.3. Transport hazard class(es)	IMDG Class	8	
	IMDG Subsidiary Haza	ard Not Applicable	
14.4. Packing group			
14.5 Environmental hazard	Not Applicable		
14.6. Special precautions for user	EMS Number	F-A, S-B	
	Special provisions	Not Applicable	
	Limited Quantities	1L	
	l		

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
hydrochloric acid	Not Available
water	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
hydrochloric acid	Not Available
water	Not Available

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

hydrochloric acid is found on the following regulatory lists

UNIVERSAL Chemical Trading GmbH Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
UNIVERSAL Chemical Trading GmbH Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5
UNIVERSAL Chemical Trading GmbH Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6
UNIVERSAL Chemical Trading GmbH Inventory of Industrial Chemicals (GIIC)
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

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water is found on the following regulatory lists

UNIVERSAL Chemical Trading GmbH Inventory of Industrial Chemicals (GIIC)

National Inventory Status

National inventory Status				
National Inventory	Status			
UNIVERSAL Chemical Trading GmbH - GIIC / UNIVERSAL Chemical Trading GmbH Non-				
Industrial Use	Yes			
Canada - DSL	Yes			
Canada - NDSL	No (hydrochloric acid; water)			
China - IECSC	Yes			
Europe - EINEC / ELINCS / NLP	Yes			
Japan - ENCS	Yes			
Korea - KECI	Yes			
New Zealand - NZIoC	Yes			
Philippines - PICCS	Yes			

Continued...

Chemwatch: 48-4484 Page 8 of 8 Issue Date: 23/12/2022

HYDROCHLORIC ACID 32%

National Inventory	Status
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration

SECTION 16 Other information

Revision Date	23/12/2022
Initial Date	31/03/2015

SDS Version Summary

Version No: 8.1

Version	Date of Update	Sections Updated	
7.1	03/09/2020	Classification change due to full database hazard calculation/update.	
8.1	23/12/2022	Classification review due to GHS Revision change.	

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or

Definitions and abbreviations

- ▶ PC-TWA: Permissible Concentration-Time Weighted Average
- ▶ PC—STEL: Permissible Concentration-Short Term Exposure Limit
- ▶ IARC: International Agency for Research on Cancer
- ▶ ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- ▶ TEEL: Temporary Emergency Exposure Limit.
- ▶ IDLH: Immediately Dangerous to Life or Health Concentrations
- ▶ ES: Exposure Standard
- ▶ OSF: Odour Safety Factor
- ▶ NOAEL: No Observed Adverse Effect Level
- ▶ LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- ▶ LOD: Limit Of Detection
- ▶ OTV: Odour Threshold Value
- ▶ BCF: BioConcentration Factors ▶ BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ GIIC: UNIVERSAL Chemical Trading GmbH Inventory of Industrial Chemicals
- ▶ DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European INventory of Existing Commercial chemical Substances
- ELINCS: European List of Notified Chemical Substances
- ▶ NLP: No-Longer Polymers
- ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ▶ TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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