

Safety Data Sheet
acc. to OSHA HCS

Print Date 01/14/2015

Revision Date 01/14/2015

· **Product Identifier**

- **Trade Name:** *Resinlab Cynergy 6000 Series (CA6001 thru CA6016)*
- **CAS Number:**
7085-85-0
- **EC number:**
230-391-5
- **Index Number:**
607-236-00-9
- **Application of the Substance or Mixture:** *Cyanoacrylate Adhesive*

· **Details of the Supplier of the Safety Data Sheet (SDS)**

- **Manufacturer or Supplier:**
Resinlab, LLC
N109 W13300 Ellsworth Drive,
Germantown, WI 53022
1-800-388-8605
www.resinlab.com
- **Information Department:** *Product Safety Department: msds@resinlab.com*
- **Emergency Telephone Number:**
North America - Chemtrec: 1-800-424-9300 (24 hours)
International - Chemtrec: 01-703-527-3887 (24 hours)

2 Hazard(s) identification

· **Hazard Classification**



- *Skin Irrit. 2 H315 Causes skin irritation.*
- *Eye Irrit. 2A H319 Causes serious eye irritation.*
- *STOT SE 3 H335 May cause respiratory irritation.*
- *H227 Combustible liquid.*

· **Label Elements**

- **GHS label elements** *The substance is classified and labeled according to the Globally Harmonized System (GHS).*
- **Pictogram(s)**



GHS07

- **Signal Word** *Warning*
- **Hazard-determining Component(s)**
Ethyl 2-cyanoacrylate
- **Hazard statements**
Combustible liquid.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.

- **Precautionary statements**
Keep away from flames and hot surfaces. – No smoking.
Avoid breathing dust/fume/gas/mist/vapors/spray
Wear protective gloves / eye protection / face protection.
Wear protective gloves.
Wear eye protection / face protection.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Specific treatment (see on this label).
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 Call a poison center/doctor if you feel unwell.
 If skin irritation occurs: Get medical advice/attention.
 If eye irritation persists: Get medical advice/attention.
 In case of fire: Use for extinction: CO₂, powder or water spray.
 If on skin: Wash with plenty of water.
 Take off contaminated clothing and wash it before reuse.
 Store locked up.
 Store in a well-ventilated place. Keep container tightly closed.
 Store in a well-ventilated place. Keep cool.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Information Pertaining to Particular Dangers for Human and Environment:**

Danger. Bonds skin and eyes in seconds.

· **Hazard Rating System**

· **NFPA System**

· **NFPA Ratings (scale 0 - 4)**



NFPA special hazards (water reactivity and oxidizing property): None

· **HMS System**

· **HMS Ratings (scale 0 - 4)**



· **Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical Characterization: Substances**

· **Chemical Characterization:** Substances

· **Chemical Identification:**

· **CAS Number and Chemical Name:**

7085-85-0 Ethyl 2-cyanoacrylate

· **EC number:** 230-391-5

· **Index Number:** 607-236-00-9

4 First-aid measures

· **Description of First Aid Measures**

· **General Information**

Ensure medical personnel are aware of exposure and take precautions for their personal protection; see Section 8 for the information of personal protection.

· **After Inhalation**

Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing.

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Seek immediate medical advice.

· After Skin Contact

Remove all contaminated clothing and wash before reuse.
Wash contaminated skin with water and soap and rinse thoroughly.
Seek immediate medical advice.

· After Eye Contact

Immediately bathe eyes for 15 minutes under running water.
Immediately remove contact lenses if present. Continue rinsing.
Seek immediate medical advice.

· After Swallowing

If victim is unconscious; never give anything by mouth.
If victim is conscious; rinse out mouth and give victim small amounts of water.
Seek medical treatment in case of complaints.

· After Exposure Seek medical treatment in case of complaints.**· Indication of any Immediate Medical Attention and Special Treatment Needed**

After frequent or high intense exposure, the following medical tests are recommended:

eye tests
skin tests
respiratory system tests

· Information for Doctor Have chemical containers, labels and/or (M)SDS ready when calling or visiting a medical center.**· Additional Information**

For additional information, please consult the corresponding first aid measures in the most current version of Emergency Response Guidebook which is produced by the US Department of Transportation.

5 Fire-fighting measures

· Extinguishing Media**· Suitable Extinguishing Agent(s)**

Use fire fighting measures and extinguishing agents that suit the environment.

In case of fire, suitable extinguishing agents are:

Water spray or water fog
Alcohol resistant foam
Dry chemicals or fire-extinguishing powder
Carbon dioxide (CO₂)

· Unsuitable Extinguishing Agent(s) No relevant information.**· Firefighting Procedures**

Isolate fire and deny unnecessary entry.
Eliminate all ignition sources if safe to do so.
Do not extinguish fire unless flow can be stopped.
Fight fire remotely due to the risk of explosion.
Burning liquids may be moved by flushing with water; protect personnel and minimize property damage.
Fight fire from protected location or safe distance.
Contain fire water runoff if possible to prevent environmental pollution.

· Special Hazards Arising in Fire

Caution! Combustible liquid.
In case of fire, following can be released:
Irritating organic vapors.
Nitrogen oxides
Carbon monoxide (CO)
Carbon dioxide (CO₂)

· Advice for Firefighters

If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA fire brigades standard (29 CFR 1910.156).
As with any fire, wear positive-pressure self-contained breathing apparatus and full protective gear that are NIOSH approved.

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Additional Information Ensure adequate and functional fire fighting facilities equipped in working area at all times.

6 Accidental release measures

Personal Precautions

Caution! Combustible liquid; wear fire/flammable resistant or retardant clothing during cleaning up.
Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use.
Ensure personnel take precautions for their personal protection during clean up; see Section 8 for the specific requirements.

Environmental Precautions

Keep away from sewage system or other water courses; do not penetrate ground/soil.
Inform respective authorities in case of any seepage to the environment.

Cleaning Up Methods

Eliminate heat, sparks, open flame and other ignition sources before clean up.
A vapor suppressing foam should be used to reduce vapors at first.
All equipment used for clean up must be grounded.
Don't touch or walk through spilled chemicals unless trained and equipped as stated in the OSHA fire brigades standard (29 CFR 1910.156).
Ensure adequate ventilation.
Keep unauthorized personnel away.
For large spills:
Shut off source of leak if safe to do so.
Dike and contain.
Remove with vacuum trucks or pump to storage/salvage vessels.
Absorb residues with liquid-binding materials.
For small spills:
Ventilate and wash area after clean-up is complete.
Collect spills in suitable and properly labeled containers.
Do not use solvents unless following safe handling practices and within the recommended exposure guidelines.
Dispose contaminated chemicals as waste according to Section 13.

Additional Information No further relevant information.

7 Handling and storage

Precautions for Safe Handling

Caution! Combustible liquid; keep away from direct sunlight, heat, sparks, flame and other ignition sources during handling.
Obtain special instruction before use; do not handle until all safety precautions have been read and understood.
Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during handling.
Ensure good ventilation and/or exhaustion at workplace.
Keep away from incompatible material(s).
Avoid any release into the environment.
Keep container tightly closed when not in use if product is volatile so as to generate hazardous atmosphere.
Observe all the personal protection requirements in Section 8.

Information about Protection Against Explosions and Fires

Keep away from heat, sparks, open flame and other ignition sources.
Protect against electrostatic charges during handling.
Metal containers involved must be grounded and bonded.
Use only non-sparking tools and equipment, especially when opening or closing containers of combustible contents.

Storage**Requirements to be Met by Storerooms and Receptacles**

Caution! Combustible liquid; keep away from direct sunlight, heat, sparks, flame and other ignition sources during storage.
Store in tightly closed containers in a cool, and well-ventilated area.
Store in a well-ventilated place; provide ventilation for receptacles.
Keep stored in accordance with local, regional, national, and international regulations.

Information about Storage in One Common Storage Facility

Store away from incompatible material(s).
Store away from foodstuffs.

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Avoid release to the environment.

· **Additional Information** No further relevant information.

8 Exposure controls/personal protection

· **Engineering Measures or Controls**

· **Exposure Limit Values that Require Monitoring at the Workplace**

7085-85-0 Ethyl 2-cyanoacrylate

TLV Long-term value: 1 mg/m³, 0.2 ppm

· **Other Engineering Measures or Controls**

Ventilation rates should be matched to conditions.

If applicable, use process enclosure(s), local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

· **Personal Protective**

· **General Protective and Hygienic Measures**

Avoid any skin contact.

Do not eat, drink or smoke during work.

Avoid any contact with the eye.

Keep food, drink or feed away from working area.

Contaminated work clothing is not allowed out of workplace.

Clean hands and exposed skin thoroughly after work and before breaks.

· **Personal Protective Equipment (PPE)**

· **Breathing Equipment**

Caution! Improper use of respirators is dangerous.

In case of brief exposure or low pollution, use a respiratory filter device.

In case of intensive or longer exposure, use a positive-pressure respiratory protective device that is independent of circulating air.

· **Hand Protection**



Protective gloves

Selection of glove material should take into consideration the penetration times, rates of diffusion, and the degradation.

Suggested glove type(s):

Nitrile Gloves

Butyl Rubber Gloves

· **Eye Protection**



Tightly sealed goggles

· **Body Protection** No relevant information.

· **Additional Information**

All protective clothing (suits, gloves, footwear, headgear) should be clean, available every day, and put on before work.

The Engineering measures or controls, and PPE recommendations are only guidelines and may not apply to every situation. For additional information, please consult the corresponding requirements under OSHA 29 CFR 1910.94-95, and 29 CFR 1910.132-138.

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9 Physical and chemical properties

· Information on Basic Physical and Chemical Properties

· Appearance:

- **Form:** Liquid
- **Color:** Clear
- **Odor:** Pungent
- **Odor Threshold:** Not determined.

- **PH-Value:** Not determined.

· Change in Condition:

- **Melting Point:** Not determined.
- **Boiling Point:** 100 °C (212 °F)
- **Flash Point:** 82 °C (180 °F)
- **Decomposition Temperature:** Not determined.
- **Flammability:** Not determined.
- **Explosion:** Not determined.

- **Vapor Pressure at 20 °C (68 °F):** <0.5 mmHg
- **Density at 20 °C (68 °F):** 1.05 - 1.09g/cm³ (8.762 lbs/gal)
- **Solubility in or Miscibility with**
 - **Water:** Not miscible or difficult to mix.
- **Viscosity:**
 - **Dynamic at 20 °C (68 °F):** 5 cps-4000 cps
See technical data sheet for specific information.
 - **Kinematic:** Not determined.

- **Additional Information** No further relevant information.

10 Stability and reactivity

- **Physical Hazard(s)** Combustible liquid.

· Hazardous Reactivity and Chemical Stability

May form explosive vapor-air mixtures when heated above the flash point.

May decompose, condense, or self-react under conditions of high temperature and/or pressure; but there is little or no potential for heat generation or explosion, or readily undergo hazardous polymerization in the absence of inhibitors.

· Thermal Decomposition and Conditions to be Avoided

Keep away from incompatible material(s).

Thermally decomposes during fire or high heat; keep away from heat, sparks, open flame and other ignition sources.

· Possibility of Other Hazardous Reaction(s)

May polymerize in contact with water or moisture.

No further relevant information available.

· Incompatible Material(s)

Amines.

Water

Bases (Alkalis)

· Hazardous Decomposition Product(s)

Thermally decomposes during fire or very high heat. See Section 5 for fire hazards evolved during thermal decomposition.

- **Additional Information** No further relevant information.

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11 Toxicological information

Acute Toxicity

Oral

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Oral LD50 > 5000 mg/kg (rat) (OECD TG 401; males; neat substance)
One out of six rats died on the fourth day at 5000 mg/kg dose level; the substance was not classified as toxic to rats based on the classification criteria.
Reference: ECHA (2012).

Potential Health Effect(s): Not a classified acute oral hazard.

Dermal

7085-85-0 Ethyl 2-cyanoacrylate

Dermal LD50 > 2000 mg/kg (rabbit) (LD0; OECD TG 402; males; neat substance)
No mortality occurred; the substance was therefore considered as non-toxic via dermal application.
Reference: ECHA (2012).

Potential Health Effect(s): Not a classified acute dermal hazard.

Inhalative

7085-85-0 Ethyl 2-cyanoacrylate

Inhalative LC50/4 h > 21.1 mg/l (rat) (LC50/1 hour; vapor)
Reference: ACToR (2012).

Potential Health Effect(s): Not a classified acute inhalative hazard.

Skin Corrosion or Irritation

7085-85-0 Ethyl 2-cyanoacrylate

Corrosion/Irritation irritating (rabbit) (OECD TG 404; 0.5g neat substance; 24hr-exposure)
Primary dermal irritation index (PDII): 0.87 (Max. score unknown; Time point: 24+72 hrs; mean score of all treated male rabbits); the substance was considered as irritating (Category 2) to rabbit skin by ECHA.
Reference: ECHA (2012).

Potential Health Effect(s):

Causes skin irritation.
In contact with skin, may cause:
redness and pain

Eye Serious Damage or Irritation

7085-85-0 Ethyl 2-cyanoacrylate

Damage/Irritation irritating (rabbit) (OECD TG 405; males; 0.1ml neat substance)
Overall irritation score: 29.33, 15.33, and 9.66 (Max. score unknown; Time point: 24hr, 48hr, and 72hr respectively); the substance was classified as irritating (Category 2A) to rabbit eyes by ECHA.
Reference: ECHA (2012).

Potential Health Effect(s):

Causes serious eye irritation.
In contact with eye, may cause:
redness and pain

Respiratory or Skin Sensitization

7085-85-0 Ethyl 2-cyanoacrylate

Sensitization	Skin	(No data available)
	Respiratory	(No data available)

Potential Health Effect(s):

No relevant information for skin sensitization; classification is not possible.
No relevant information for respiratory sensitization; classification is not possible.

OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

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· Germ Cell Mutagenicity

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Mutagenicity negative (Test species listed below)
In Vitro (Mammalian chromosome aberration test; OECD TG 473; Human lymphoblastoid cells (TK6)) - negative with and without metabolic activation
In Vitro (Mammalian cell gene mutation assay; OECD TG 476; Mouse lymphoma L5178Y cells) - negative with and without metabolic activation
 Reference: ECHA (2012).

· Potential Health Effect(s): Not a known Germ Cell Mutagen.

· Carcinogenicity

7085-85-0 Ethyl 2-cyanoacrylate

Carcinogenicity negative (Test species: n/a)
 Not listed as a carcinogen according to ACGIH, IARC, NTP, or OSHA.

· Potential Health Effect(s): Not a known Carcinogen.

· Reproductive Toxicity

7085-85-0 Ethyl 2-cyanoacrylate

Reproductive Toxi. (No data available)

· Potential Health Effect(s): No relevant information; classification is not possible.

· Specific Target Organ Toxicity - Single Exposure

7085-85-0 Ethyl 2-cyanoacrylate

STOT-Single (Human)
 There were respiratory irritation results reported in human victims that caused by the substance. The substance was classified as a Category 3 respiratory irritant from the view point of safety.
 Reference: GHS-J (2006).

· Potential Health Effect(s): May cause respiratory irritation.

· Specific Target Organ Toxicity - Repeated Exposure

7085-85-0 Ethyl 2-cyanoacrylate

STOT-Repeated (No data available)

· Potential Health Effect(s): No relevant information; classification is not possible.

· Aspiration Hazard

7085-85-0 Ethyl 2-cyanoacrylate

Aspiration Hazard (No data available)

· Potential Health Effect(s): No relevant information; classification is not possible.

· Additional Information No further relevant information.

12 Ecological information

· Aquatic Environmental Toxicity

7085-85-0 Ethyl 2-cyanoacrylate

Algae Toxicity (No data available)
 Crustacean Toxicity (No data available)
 Fish Toxicity (No data available)

· Aquatic Environmental Toxicity Assessment: No relevant information; classification is not possible.

· Degradability and Stability

7085-85-0 Ethyl 2-cyanoacrylate

Biodegradation (No data available)
 Based on the persistent properties, the substance is expected to be non-biodegradable.
 Persistence (Test species: n/a)
 The substance is persistent.
 Reference: Canada DSL (2007).

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Photodegradation	(No data available)
Stability in water	unstable (Test species: n/a) The substance readily polymerizes in the presence of moisture. Reference: ACToR (2012).

Bioaccumulation and Distribution

7085-85-0 Ethyl 2-cyanoacrylate

BCF	(No data available) The substance is not bioaccumulative. Reference: Canada DSL (2007).
Koc	(No data available)
LogPow	(Not applicable) The partition coefficient for the substance can't be determined due to its ready polymerization in the presence of moisture. Reference: ACToR (2012).

Degradability and Bioaccumulation Assessment: Non-rapidly degradable, and low bioaccumulative.

Additional Information No further relevant information.

13 Disposal considerations

Hazardous Waste List

- **Description:** It may be necessary to contain and dispose of the substance/mixture as a hazardous waste.
- **Waste Treatment Recommendation:**
Generation of waste should be avoided or minimized wherever possible.
Chemical waste, even small quantities, is neither allowed to be poured down drains, sewage system or waterways; nor disposed with household garbage.
Dispose of contents/containers in accordance with local, regional, national, and international regulations.
- **Unused and Uncontaminated Packagings**
 - **Recommendation** Dispose of according to your local waste regulations.

14 Transport information

· **UN-Number** Not regulated for transport; not applicable.
· **DOT, ADR, ADN, IMDG**
· **IATA** UN3334

· **UN Proper Shipping Name**
· **IATA** Aviation regulated liquid, n.o.s.(Cyanoacrylate ester)
· **DOT, ADR, IMDG** Not regulated for transport; not applicable.

· **Transport hazard class(es)** Not regulated for transport; not applicable.
· **DOT, ADR, ADN, IMDG**
· **Class**
· **IATA**



· **Class** 9 Miscellaneous dangerous substances and articles
· **Label** 9

· **Packing group** Not regulated for transport; not applicable.
· **DOT, ADR**

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· IMDG	Not regulated for transport;not applicable.
· IATA	III
· Environmental Hazards:	Not applicable.
· Special Precautions:	Not applicable.
· Transport in Bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional Information:	
· IATA	
· Remarks:	Primary packs containing less than 500ml are unregulated by this mode of transport and may be shipped unrestricted.
· UN "Model Regulation":	UN3334, Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)

15 Regulatory information

· **USA Regulation Lists**

· **SARA (Superfund Amendments and Reauthorization Act of 1986)**

· **Section 302 (Extremely Hazardous Substances)**

Substance is not listed.

· **Section 313 (Toxics Release Inventory (TRI) reporting)**

Substance is not listed.

· **Section 311/312 (Hazardous Chemical Inventory Reporting)**

Substance is not listed.

· **Hazard Abbreviations for SARA 311/312**

- A - Acute Health Hazard
- C - Chronic Health Hazard
- F - Fire Hazard
- R - Reactive Hazard
- S - Sudden Release of Pressure Hazard

· **TSCA (Toxic Substances Control Act)**

Substance is listed.

· **Proposition 65**

· **Chemicals Known to Cause Cancer**

Substance is not listed.

· **Chemicals Known to Cause Reproductive Toxicity for Females**

Substance is not listed.

· **Chemicals Known to Cause Reproductive Toxicity for Males**

Substance is not listed.

· **Chemicals Known to Cause Developmental Toxicity**

Substance is not listed.

· **Carcinogenic Categories**

· **EPA (Environmental Protection Agency)**

Substance is not listed.

· **IARC (International Agency for Research on Cancer)**

Substance is not listed.

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· **NTP (National Toxicology Program)**

Substance is not listed.

· **TLV (Threshold Limit Value Established by ACGIH)**

Substance is not listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

· **International Regulation Lists**

· **Canadian Domestic Substance Listings:**

Substance is listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

Substance is not listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

Substance is not listed.

· **Chinese Chemical Inventory of Existing Chemical Substances:**

Substance is listed.

· **Japanese Existing and New Chemical Substance List:**

Substance is listed.

· **Korean Existing Chemical Inventory:**

Substance is listed.

· **European Pre-registered substances:**

Substance is listed.

· **REACH - Substances of Very High Concern (SVHC) List:**

Substance is not listed.

· **Restriction of Hazardous Substances Directive (RoHS) list:**

Substance is not listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department Issuing (M)SDS:** Product Safety Department

· **Contact:** msds@resinlab.com

· **Abbreviations and acronyms:**

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DOT: US Department of Transportation

HMIS: US National Paint & Coatings Association (NPCA) Hazardous Materials Identification System

IARC: International Agency for Research on Cancer developed by United Nations World Health Organisation (WHO)

ICAO-TI: Technical Instructions (TI) by the International Civil Aviation Organization (ICAO)

IMDG: International Maritime Dangerous Goods; the principal international rules for International Carriage of Dangerous Goods by SEA under the Recommendations on the Transport of Dangerous Goods by United Nations (RTDG)

LC50/LD50: Lethal Concentration/Dose, 50 percent

N/a: Not available or Not applicable

NFPA: US National Fire Protection Association

NIOSH: US National Institute of Occupational Safety and Health

OSHA: US Occupational Safety and Health Administration

P: Marine Pollutant

RCRA: Resource Conservation and Recovery Act (USA)

REACH: EU Registry, Evaluation and Authorisation of Chemicals

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SARA: US Superfund Amendments and Reauthorization Act
TEEL: Temporary Emergency Exposure Limit developed by US Subcommittee on Consequence Assessment and Protective Actions (SCAPA) of US Department of Energy (DOE)
TSCA: US Toxic Substance Control Act
ACToR: US EPA Aggregated Computational Toxicology Resource
BCF: Bioconcentration Factor
CCRIS: US NLM TOXNET Chemical Carcinogenesis Research Information System
CHRIP: Japan NITE Information on Biodegradation and Bioconcentration of the Existing Chemical Substances in the Chemical Risk Information Platform
DSL: Canada Domestic Substance List
ESIS: European Chemical Substances Information System
HSDB: US NLM TOXNET Hazardous Substances Databank
HSNO CCID: New Zealand Hazardous Substances and New Organisms Chemical Classification Information Database
IATA-DGR: Dangerous Goods Regulations (DGR) by the International Air Transport Association (IATA)
ICSC: International Chemical Safety Cards
Koc: Partition coefficient, soil Organic Carbon to water
NITE: National Institute of Technology and Evaluation, Japan
OECD: Organisation for Economic Co-operation and Development
RID: the Regulations Concerning the International Carriage of Dangerous Goods by Rail; published by the Central Office for International Carriage by Rail (OTIF)
RTDG: the Recommendations on the Transport of Dangerous Goods by United Nations (UN)
RTECS: US Registry of Toxic Effects of Chemical Substances
SIDS: OECD existing chemicals Screening Information Data Sets
SVHC: EU ECHA Substance of Very High Concern
TOXLINE: US NLM bibliographic database search system

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