

## Safety Data Sheet

acc. to OSHA HCS

Printing date 03/19/2024

Reviewed on 03/19/2024

### 1 Identification

- **Product identifier**

- Trade name: CYBERSOLV 141-K (AEROSOL)
- Application of the substance / the mixture: Cleaning agent/ Cleaner

- **Details of the supplier of the safety data sheet**

- Manufacturer/Supplier:  
KYZEN  
430 Harding Industrial Drive  
NASHVILLE, TN 37211 USA  
P: 1-800-845-5524  
www.KYZEN.com

- Information department:

Safety Data Sheet Coordinator

<https://www.kyzen.com/cleaning-chemistries-products-services/kyzen-safety-data-sheet/>

- Emergency telephone number:

CHEMTREC

Within the USA and Canada: 1-800 424-9300

Outside the USA and International: +1-703-527-3887

### 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS04

Gases under Pressure - Compressed gas H280 Contains gas under pressure; may explode if heated.



GHS07

Acute Toxicity - Oral 4

H302 Harmful if swallowed.

Acute Toxicity - Inhalation 4

H332 Harmful if inhaled.

- **Label elements**

- GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms



GHS04 GHS07

- Signal word Warning
- Hazard-determining components of labeling:  
trans-dichloroethylene

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- Hazard statements
  - H280 Contains gas under pressure; may explode if heated.
  - H302+H332 Harmful if swallowed or if inhaled.
- Precautionary statements
  - P261 Avoid breathing dust/fume/gas/mist/vapors/spray
  - P264 Wash thoroughly after handling.
  - P270 Do not eat, drink or smoke when using this product.
  - P271 Use only outdoors or in a well-ventilated area.
  - P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
  - P330 Rinse mouth.
  - P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  - P410+P403 Protect from sunlight. Store in a well-ventilated place.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Classification system:** NFPA
- NFPA ratings (scale 0 - 4)



Health = 1  
Fire = 0  
Reactivity = 0

- HMIS-ratings (scale 0 - 4)



Health = 1  
Fire = 0  
Reactivity = 1

- **Other hazards**
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- Description: Mixture of the substances listed below with nonhazardous additions.

- Dangerous components:

156-60-5	trans-dichloroethylene	25-50%
102687-65-0	trans-1-Chloro-3,3,3-trifluoropropene	25-50%
124-38-9	carbon dioxide	2.5-10%
79-20-9	methyl acetate	≥2.5-<10%

### 4 First-aid measures

- **Description of first aid measures**
- General information:
  - Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Rinse with warm water.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Immediately call a doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.

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- Indication of any immediate medical attention and special treatment needed  
No further relevant information available.

## 5 Fire-fighting measures

- **Extinguishing media**
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- Protective equipment: No special measures required.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to section 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
- Precautions for safe handling No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**
- Components with limit values that require monitoring at the workplace:  
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.  
At this time, the remaining constituent has no known exposure limits.

### 156-60-5 trans-dichloroethylene

PEL	Long-term value: 790 mg/m <sup>3</sup> , 200 ppm
REL	Long-term value: 790 mg/m <sup>3</sup> , 200 ppm
TLV	Long-term value: 200 ppm

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**124-38-9 carbon dioxide**

PEL	Long-term value: 9000 mg/m <sup>3</sup> , 5000 ppm
REL	Short-term value: 54,000 mg/m <sup>3</sup> , 30,000 ppm Long-term value: 9000 mg/m <sup>3</sup> , 5000 ppm
TLV	Short-term value: 30,000 ppm Long-term value: 5000 ppm

**79-20-9 methyl acetate**

PEL	Long-term value: 610 mg/m <sup>3</sup> , 200 ppm
REL	Short-term value: 760 mg/m <sup>3</sup> , 250 ppm Long-term value: 610 mg/m <sup>3</sup> , 200 ppm
TLV	Short-term value: 250 ppm Long-term value: 200 ppm

- Regulatory information  
 PEL: Guide to Occupational Exposure Values (OSHA PELs)  
 REL: Guide to Occupational Exposure Values (NIOSH RELs)  
 TLV: Guide to Occupational Exposure Values (TLV)
- Additional information: The lists that were valid during the creation were used as basis.
- **Exposure controls**
  - Personal protective equipment:
  - General protective and hygienic measures:  
 Keep away from foodstuffs, beverages and feed.  
 Wash hands before breaks and at the end of work.
  - Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation.
  - Protection of hands:  
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
  - Material of gloves  
 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
  - Penetration time of glove material  
 The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - Eye protection: Safety glasses

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- General Information
- Appearance:
 

Form:	Aerosol
Color:	Colorless
Odor:	Solvent-like
Odor threshold:	Not determined.
- pH-value:
 

Mixture is non-polar/aprotic.
Not applicable.

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· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	35 °C (95 °F)
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable. per 75/324/EEU and 2013/10/EU
· Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure at 20 °C (68 °F):	350 hPa (262.5 mm Hg)
· Density at 20 °C (68 °F):	1.122 g/cm <sup>3</sup> (9.363 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Insoluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- Acute toxicity:

· LD/LC50 values that are relevant for classification:
--

<b>156-60-5 trans-dichloroethylene</b>
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Oral	LD50	770 mg/kg (rat)
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- Additional toxicological information: Harmful

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· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety &amp; Health Administration)

None of the ingredients is listed.

## 12 Ecological information

· **Toxicity**

· Aquatic toxicity: No further relevant information available.

· **Persistence and degradability** No further relevant information available.· **Behavior in environmental systems:**

· Bioaccumulative potential No further relevant information available.

· Mobility in soil No further relevant information available.

· **Ecotoxicological effects:**

· Remark: Harmful to fish

· **Additional ecological information:**

· General notes: Water hazard class 2 (Self-assessment): hazardous for water

· **Results of PBT and vPvB assessment**

· PBT: Not applicable.

· vPvB: Not applicable.

· **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

· **Waste treatment methods**

· Recommendation: Hand over to hazardous waste disposers.

· **Uncleaned packagings:**

· Recommendation: Disposal must be made according to official regulations.

## 14 Transport information

· **UN-Number**

· DOT, ADR, IMDG, IATA

UN1950

· **UN proper shipping name**

· DOT

Aerosols

· ADR

1950 AEROSOLS

· IMDG, IATA

AEROSOLS

· **Transport hazard class(es)**

· DOT



· Class

2 Gases

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· Label	2.2
· ADR	
	
· Class	2.5A Gases
· Label	2.2
· IMDG, IATA	
	
· Class	2 Gases
· Label	2.2
· <b>Packing group</b>	
· DOT, ADR, IMDG, IATA	Not Regulated
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Warning: Gases
· Hazard identification number (Kemler code):	-
· EMS Number:	F-D,S-U
· Stowage Code	SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
· Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 75 kg On cargo aircraft only: 150 kg
· ADR	
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· <b>UN "Model Regulation":</b>	UN 1950 AEROSOLS, 2.2

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## 15 Regulatory information

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

#### · Sara

#### · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

#### · Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

#### · TSCA (Toxic Substances Control Act): All ingredients are listed.

#### · Hazardous Air Pollutants

None of the ingredients is listed.

#### · Proposition 65

#### · Chemicals known to cause cancer:

None of the ingredients is listed.

#### · Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

#### · Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

#### · Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

#### · Carcinogenic categories

#### · EPA (Environmental Protection Agency)

156-60-5 trans-dichloroethylene

II

#### · TLV (Threshold Limit Value)

None of the ingredients is listed.

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

None of the ingredients is listed.

#### · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## 16 Other information

The information contained in this Safety Data Sheet is based on available data from reliable sources and is accurate to the best of KYZEN Corporation's knowledge at the time of this publication. KYZEN makes no warranty, expressed or implied, of merchantability or fitness for a particular purpose, course of performance or usage of trade. The user is solely responsible for determining the suitability and completeness of such information for their particular application and for adopting appropriate safety precautions. Physical properties listed within are typical values based on samples tested and should not be construed as guaranteed analysis of any specific lot or as specifications for the product. KYZEN does not intend this information to be all-inclusive as to the manner and conditions of use, handling, storage and disposal. Other factors may involve additional legal, environmental, safety or performance considerations, and KYZEN assumes no liability whatsoever for the use of, or reliance upon, this information. | [www.kyzen.com/terms](http://www.kyzen.com/terms)

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#### · Contact: SDS Coordinator

#### · Date of preparation / last revision 03/19/2024

#### · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

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IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Gases under Pressure - Compressed gas: Gases under pressure – Compressed gas  
Acute Toxicity - Oral 4: Acute toxicity – Category 4  
· \* Data compared to the previous version altered.

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