

1 Identification

- **Product identifier**
- **Trade name:** SOLV-ALL 2 METAL PARTS SOLVENT
- **Article number:** 80-929
- **Application of the substance / the mixture** Coolant/ Cutting solution
- **Recommended use and restriction on use**
- **Recommended use:** Coolant/cutting solution
- **Restrictions on use:** No further relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Kimball-Midwest
4800 Roberts Road
Columbus, OH 43228
Phone: (800) 233-1294
- **Emergency telephone number:**
CHEMTREC
1-800-424-9300 (US/Canada)

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS04 Gas cylinder

Press. Gas H280 Contains gas under pressure; may explode if heated.



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS04 GHS08

- **Signal word** Warning

- **Hazard-determining components of labeling:**

tetrachloroethylene
dichloromethane

- **Hazard statements**

H280 Contains gas under pressure; may explode if heated.

H351 Suspected of causing cancer.

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Precautionary statements

- P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P405 Store locked up.
 P410+P403 Protect from sunlight. Store in a well-ventilated place.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard description:

WHMIS-symbols:

- A - Compressed gas
 D2A - Very toxic material causing other toxic effects



Classification system:

NFPA ratings (scale 0 - 4)



HMIS-ratings (scale 0 - 4)



- * - Indicates a long term health hazard from repeated or prolonged exposures.

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:

127-18-4	tetrachloroethylene	☠ Carc. 2, H351	60-80%
75-09-2	dichloromethane	☠ Carc. 2, H351	10-20%
67-64-1	acetone	⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2A, H319; STOT SE 3, H336	1-5%
124-38-9	carbon dioxide	⚠ Press. Gas, H280	1-5%

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· Additional information:

For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.

4 First-aid measures

· Description of first aid measures
· General information: Take affected persons out into the fresh air.

· After inhalation: Supply fresh air; consult doctor in case of complaints.

· After skin contact: Immediately wash with water and soap and rinse thoroughly.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Unlikely route of exposure.

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

· Information for doctor:
· Most important symptoms and effects, both acute and delayed

Headache

Coughing

Nausea

Gastric or intestinal disorders when ingested.

Allergic reactions

Dizziness

Slight irritant effect on skin and mucous membranes.

Irritant to eyes.

· Danger Suspected of causing cancer.

· Indication of any immediate medical attention and special treatment needed

If necessary oxygen respiration treatment.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

5 Fire-fighting measures

· Extinguishing media
· Suitable extinguishing agents:

Water fog / haze

Foam

Fire-extinguishing powder

Carbon dioxide

Sand

· For safety reasons unsuitable extinguishing agents: Water stream.

· Special hazards arising from the substance or mixture

Danger of receptacles bursting because of high vapor pressure if heated.

During heating or in case of fire poisonous gases are produced.

· Advice for firefighters
· Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

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Additional information

In case of fire involving large quantities, evacuate area and fight fire from the upwind side.
Cool endangered receptacles with water fog.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.
Keep away from ignition sources.
Protect from heat.

Environmental precautions:

Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up:

Absorb liquid components with liquid-binding material.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
Pick up manually.
Send for recovery or disposal in suitable receptacles.
Dispose contaminated material as waste according to item 13.

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

Use only in well ventilated areas.
Avoid splashes or spray in enclosed areas.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

Information about protection against explosions and fires:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 120 °F / 49 °C, i.e. electric lights. Do not pierce or burn, even after use.
Keep respiratory protective device available.
Pressurised container: May burst if heated.
During heating or in case of fire poisonous gases are produced.

Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:

Store in a cool location.
Observe official regulations on storing packagings with pressurized containers.
Avoid storage near extreme heat, ignition sources or open flame.

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- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from oxidizing agents.
- **Further information about storage conditions:**
Protect from heat and direct sunlight.
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
- **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 item 7.
- **Control parameters**

· Components with limit values that require monitoring at the workplace:

127-18-4 tetrachloroethylene

PEL (USA)	Long-term value: 100 ppm Ceiling limit value: 200; 300* ppm *5-min peak in any 3 hrs
REL (USA)	Minimize workplace exp. concs.; Pocket Guide App. A
TLV (USA)	Short-term value: 685 mg/m ³ , 100 ppm Long-term value: 170 mg/m ³ , 25 ppm BEI
EL (Canada)	Short-term value: 100 ppm Long-term value: 25 ppm IARC 2A
EV (Canada)	Short-term value: 100 ppm Long-term value: 25 ppm
LMPE (Mexico)	Short-term value: 100 ppm Long-term value: 25 ppm A3, IBE

75-09-2 dichloromethane

PEL (USA)	Short-term value: 125 ppm Long-term value: 25 ppm see 29 CFR 1910.1052
REL (USA)	See Pocket Guide App. A
TLV (USA)	Long-term value: 174 mg/m ³ , 50 ppm BEI
EL (Canada)	Long-term value: 25 ppm IARC 2B
EV (Canada)	Long-term value: 175 mg/m ³ , 50 ppm
LMPE (Mexico)	Long-term value: 50 ppm A3, IBE

67-64-1 acetone

PEL (USA)	Long-term value: 2400 mg/m ³ , 1000 ppm
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REL (USA)	Long-term value: 590 mg/m ³ , 250 ppm
TLV (USA)	Short-term value: (1782) NIC-1187 mg/m ³ , (750) NIC-500 ppm Long-term value: (1188) NIC-594 mg/m ³ , (500) NIC-250 ppm BEI
EL (Canada)	Short-term value: 500 ppm Long-term value: 250 ppm
EV (Canada)	Short-term value: 750 ppm Long-term value: 500 ppm
LMPE (Mexico)	Short-term value: 750 ppm Long-term value: 500 ppm A4, IBE

124-38-9 carbon dioxide

PEL (USA)	Long-term value: 9000 mg/m ³ , 5000 ppm
REL (USA)	Short-term value: 54.000 mg/m ³ , 30.000 ppm Long-term value: 9000 mg/m ³ , 5000 ppm
TLV (USA)	Short-term value: 54.000 mg/m ³ , 30.000 ppm Long-term value: 9000 mg/m ³ , 5000 ppm
EL (Canada)	Short-term value: 15000 ppm Long-term value: 5000 ppm
EV (Canada)	Short-term value: 54.000 mg/m ³ , 30.000 ppm Long-term value: 9.000 mg/m ³ , 5.000 ppm
LMPE (Mexico)	Short-term value: 30000 ppm Long-term value: 5000 ppm

Ingredients with biological limit values:**127-18-4 tetrachloroethylene**

BEI (USA)	3 ppm Medium: end-exhaled air Time: prior to shift Parameter: Tetrachloroethylene 0.5 mg/L Medium: blood Time: prior to shift Parameter: Tetrachloroethylene
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75-09-2 dichloromethane

BEI (USA)	0.3 mg/L Medium: urine Time: end of shift Parameter: Dichloromethane (semi-quantitative)
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67-64-1 acetone

BEI (USA)	50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
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· **Additional information:** The lists that were valid during the creation were used as basis.

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- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 The usual precautionary measures for handling chemicals should be followed.
 Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing.
 Wash hands before breaks and at the end of work.
 Use only in well ventilated areas.
 Avoid contact with the eyes and skin.
 Avoid breathing mist, vapors, or spray.
- **Engineering controls:** No further relevant information available.
- **Breathing equipment:**
 Use suitable respiratory protective device in case of insufficient ventilation.
 For spills, respiratory protection may be advisable.
 NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 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

- **Body protection:** Protective work clothing
- **Limitation and supervision of exposure into the environment**
 Avoid release to the environment.
 No further relevant information available.

9 Physical and chemical properties

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

Form:	Aerosol
Color:	Colorless

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- **Odor:** Solvent-like
- **Odor threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
- **Melting point/Melting range:** Not applicable, as aerosol.
- **Boiling point/Boiling range:** 87 °C (189 °F) (estimated)
- **Flash point:** Not applicable, as aerosol.
- **Flammability (solid, gaseous):** Not applicable.
- **Auto-ignition temperature:** Not determined.
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not self-igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
- **Lower:** Not determined.
- **Upper:** Not determined.
- **Vapor pressure:** 77 hPa (58 mm Hg) (estimated)
- **Density:** 1.5322 g/mL
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not applicable.
- **Solubility in / Miscibility with**
- **Water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
- **Dynamic:** Not determined.
- **Kinematic:** Not determined.
- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
Danger of receptacles bursting because of high vapor pressure if heated.
- **Possibility of hazardous reactions**
Reacts with oxidizing agents.
Toxic fumes may be released if heated above the decomposition point.
- **Conditions to avoid**
Excessive heat.
Store away from oxidizing agents.

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- **Incompatible materials:**
Caution! Do not use in conjunction with other products. Dangerous gases (chlorine) may be given off.
- **Hazardous decomposition products:**
Carbon monoxide and carbon dioxide
Chlorine
Chlorine compounds

11 Toxicological information

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

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

127-18-4 tetrachloroethylene

Oral	LD50	2629 mg/kg (rat)
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79-01-6 trichloroethylene

Oral	LD50	2402 mg/kg (mouse)
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Dermal	LD50	8450 mg/kg (mouse)
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67-64-1 acetone

Oral	LD50	5800 mg/kg (rat)
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Dermal	LD50	20000 mg/kg (rabbit)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Additional toxicological information:**
Irritant
Danger through skin absorption.
Inhalation of concentrated vapors as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.
Carcinogenic.
Suspected of causing genetic defects.
Toxic and/or corrosive effects may be delayed up to 24 hours.

- **Carcinogenic categories**

- **NTP (National Toxicology Program)**

127-18-4	tetrachloroethylene	R
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75-09-2	dichloromethane	R
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- **OSHA-Ca (Occupational Safety & Health Administration)**

75-09-2	dichloromethane
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- **Probable Routes of Exposure**

Ingestion.
Inhalation.
Eye contact.
Skin contact.

- **Acute effects (acute toxicity, irritation and corrosivity):** Vapors have narcotic effect.

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- **Repeated Dose Toxicity:**

May cause damage to organs through prolonged or repeated exposure.

Repeated exposures may result in skin and/or respiratory sensitivity.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

The material is harmful to the environment.

Toxic for aquatic organisms

- **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:** Toxic for fish

- **Additional ecological information:**

- **General notes:**

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

- **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:**

Contact waste processors for recycling information.

After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**

- **DOT, ADR, IMDG, IATA**

UN1950

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· UN proper shipping name



Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 1 L (0.3 gal).

· DOT

Aerosols, non flammable

· ADR

1950 AEROSOLS, CONTAINING SUBSTANCES IN CLASS 6.1, PACKING GROUP III, ENVIRONMENTALLY HAZARDOUS

· IMDG

AEROSOLS, AEROSOLS, NON-FLAMMABLE, CONTAINING SUBSTANCES IN CLASS 6.1, PACKING GROUP III (TETRACHLOROETHYLENE), MARINE POLLUTANT

· IATA

AEROSOLS, NON-FLAMMABLE, CONTAINING SUBSTANCES IN CLASS 6.1, PACKING GROUP III

· Transport hazard class(es)

· DOT



· Class

2.2

· Label

2.2+6.1

· ADR



· Class

2 5T Gases

· Label

2.2+6.1

· IMDG



· Class

2.2

· Label

2.2+6.1

· IATA



· Class

2.2

· Label

2.2+6.1

· Packing group

· DOT, ADR, IMDG, IATA

Not Regulated

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· Environmental hazards:	Product contains environmentally hazardous substances: tetrachloroethylene
· Marine pollutant:	Yes
· Special marking (ADR):	Symbol (fish and tree)
· Special precautions for user	Symbol (fish and tree)
· Danger code (Kemler):	Warning: Gases
· EMS Number:	-
· Segregation groups	F-D,S-U
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Liquid halogenated hydrocarbons
· Transport/Additional information:	Not applicable.
· 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
· UN "Model Regulation":	UN1950, Aerosols, ENVIRONMENTALLY HAZARDOUS, 2.2

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):

127-18-4 tetrachloroethylene

79-01-6 trichloroethylene

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65 (California)

· Chemicals known to cause cancer:

127-18-4 tetrachloroethylene

79-01-6 trichloroethylene

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

79-01-6 trichloroethylene

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

79-01-6 trichloroethylene

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

127-18-4 tetrachloroethylene

L

79-01-6 trichloroethylene

CaH

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

127-18-4 tetrachloroethylene

2A

79-01-6 trichloroethylene

2A

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

127-18-4 tetrachloroethylene

A3

79-01-6 trichloroethylene

A2

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

127-18-4 tetrachloroethylene

79-01-6 trichloroethylene

· **State Right to Know Listings**

None of the ingredients is listed.

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

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

None of the ingredients is listed.

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

All ingredients are listed.

· **Other regulations, limitations and prohibitive regulations**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

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

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.

· **Date of preparation / last revision** 02/06/2015 / -

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

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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)
WHMIS: Workplace Hazardous Materials Information System (Canada)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Press. Gas: Gases under pressure: Compressed gas
Press. Gas: Gases under pressure: Liquefied gas
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
Carc. 2: Carcinogenicity, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Sources

SDS Prepared by:
ChemTel Inc.
1305 North Florida Avenue
Tampa, Florida USA 33602-2902
Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
Website: www.chemtelinc.com