



1: Identification

- **1.1 Product identifier**
- **Trade name:** **DR-60 Cleaner/Remover Spray Can, Kwik-Chek #2**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture**
NDT Inspection developer "form d & e" per AMS-2644/ASTM E-1417
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**

Sherwin Incorporated	Irontite Products Inc.
5530 Borwick Ave	P.O. Box 9877
South Gate, CA 90280	Cedar Rapids, IA 52409
Phone: (562) 861-6324	Phone: (319) 377-9421
Fax: (562) 923-8370	Fax: (319) 377-9101
https://www.sherwininc.com/	http://www.irontite.com
- **Information department:** Product safety department
- **1.4 Emergency telephone number:**
Chemtrec +1-800-424-9300 in U.S.A.; outside U.S.A. 001-703-527-3887
Chemtrec contract number 20103

2: Hazard(s) identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Flam. Liq. 2 H225 Highly flammable liquid and vapor.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
Flammable Aerosol 1 H220
Gases Under Pressure – Compressed Gas
- **2.2 Label elements**
- **Labeling according to Regulation (EC) No 1272/2008**
The product is classified and labeled according to the CLP regulation.
- **Hazard pictograms**

GHS02 GHS08
- **Signal word** Danger
- **Hazard-determining components of labeling:**
Isoparaffin (2)
Propane
Butane
- **Hazard statements**
H220 Flammable aerosol. Contains gas under pressure; may explode if heated.
H225 Highly flammable gas.
H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
- **Precautionary statements**
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P233 Keep container tightly closed.
P240+P241 Use explosion-proof electrical/ventilating/lighting/equipment. Ground container.
P261+P271 Avoid breathing product. Use in a well ventilated area.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P301+P310 If swallowed: Immediately call a doctor.

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- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
- P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
- P233+P405 Keep container tightly closed. Store locked up.
- P403+P410 Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 50 °C/122 °F
- P501 Dispose of contents/container in accordance with local/regional/national/international

Classification system:

· **NFPA ratings (scale 0 - 4)**



Health = 1
Fire = 4
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 1
Fire = 4
Reactivity = 0

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

3: Composition/information on ingredients

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

Dangerous components:

EC number: 923-037-2	Isoparaffin (2)	50-100%
CAS 74-98-6	Propane	1-10%
CAS 75-28-5	Butane	1-10%

4: First-aid measures

- **4.1 Description of first aid measures**
- **After inhalation:**
Supply fresh air. If required, provide artificial respiration.. Consult doctor if you feel unwell. In case of unconsciousness place patient stably in side position for transportation and call doctor.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly. Take off contaminated clothing. If skin irritation continues, consult a doctor.
- **After eye contact:**
Immediately rinse opened eye for 15l minutes under running water. Remove contact lens. If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse mouth. Do not induce vomiting. Keep respiratory tract clear. If symptoms persist, immediately call for medical help. A person vomiting while lying on their back should be turned onto their side.

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- **4.2 Most important symptoms and effects, both acute and delayed**
May No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5: Fire-fighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, sand, extinguishing powder. Do not use water.
Foam
ABC powder
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** Spray cans are under pressure. Carbon monoxide and carbon dioxide
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device, if necessary. Wear fully protective suit.

6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Spray cans are under pressure Wear protective equipment. Keep unprotected persons away. Eliminate ignition sources. Ensure adequate ventilation. Avoid breathing mist or vapors.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Collect liquid in an appropriate container or absorb with an inert material such as vermiculite, dry sand, or earth;
DO NOT use combustible materials.
Place in a chemical waste container.
- **6.4 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

- **7.1 Precautions for safe handling** Prevent breathing of mists or vapors. Practice good hygiene..
- **Information about protection against explosions and fires:**
Keep away from sources of ignition. - No smoking. Do not spray on an open flame or other Ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid contact Avoid with skin and eyes. Avoid breathing vapor or mist. Do not swallow.
Use only outdoors or in a well-ventilated area. When using do not eat, drink or smoke. (See section 8)
Containers may be hazardous when empty since residue may be present: **7.2**
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
No smoking.
Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 50 °C/122 °F
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.

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- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **7.3 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.
- **8.1 Control parameters**
Components with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
- **Breathing equipment:**



Ventilation System: A system of local or general exhaust is recommended to keep employee exposure below the airborne exposure limits. If exposure limit is exceeded use organic vapor respirator (type A), or self contained breathing apparatus.

- **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 cannot 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.

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Eye protection:



Safety glasses

Tightly sealed goggles

- **Body protection:** Use protective suit. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

9: Physical and chemical properties

• **9.1 Information on basic physical and chemical properties**

• **General Information**

• **Appearance:**

• **Form:** Spray can under pressure. Clear liquid, gas propellant

• **Color:** Colorless

• **Odor:** Characteristic

• **Odour threshold:** Not determined.

• **pH-value:** Not applicable.

• **Change in condition**

• **Melting point/Melting range:** Undetermined.

• **Boiling point/Boiling range:** Liquid portion: > 153 °C (> 307 °F)

• **Flash point, solvent:** Liquid portion: 39-41 °C (102.9-106 °F) (ASTM D-93)

• **Ignition temperature:** Liquid portion: 336 °C (637°F)

• **Decomposition temperature:** Not determined.

• **Auto igniting:** Product is not self igniting.

• **Danger of explosion:** Can under pressure with a flammable gas.

• **Explosion limits:** Liquid portion: Not determined

• **Lower:** **Upper:** 13.0 Vol % Propellant: 9.5% (vol.) Gas in air

• **Vapor pressure at 20 °C (68 °F):** No data available

• **Density at 20 °C (68 °F):** Liquid portion: 0.74 g/cm³ (6.2 lbs/gal)

• **Relative density** Not determined.

• **Vapour density** Not determined.

• **Evaporation rate** Not determined.

• **Solubility in / Miscibility with**

• **Water:** Not soluble

• **Partition coefficient (n-octanol/water):** Not determined.

• **Viscosity:**

• **Dynamic:** Not determined.

• **Kinematic:** Not determined.

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· **9.2 Other information** No further relevant information available.

10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Avoid contact with acetaldehyde, acids, chlorine, ethylene oxide, isocyanate and strong oxidizing agents
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** Information on hazardous ingredients

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

Isoparaffin (2)

Dermal	LD50	>3000 mg/kg (rabbit)
Inhalative	LC50/4h	>13.2 mg/kg (rat)
Oral	LD50	34,600 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** repeated exposure may cause skin dryness or cracking
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**

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

No component of this product is identified as probable, possible or confirmed human carcinogen

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.



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12: Ecological information

• 12.1 Toxicity

• Aquatic toxicity:

Information on hazardous ingredients

Isopariffin (2)	
Toxicity, fish	LC50/96h : >100 mg/l

• 12.2 Persistence and degradability No further relevant information available.

• 12.3 Bioaccumulative potential No further relevant information available.

• 12.4 Mobility in soil No further relevant information available.

• Additional ecological information:

• General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

• 12.5 Results of PBT and vPvB assessment

• PBT: Not applicable.

• vPvB: Not applicable.

• 12.6 Other adverse effects No further relevant information available.

13: Disposal considerations

• 13.1 Waste treatment methods

• Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Waste/ unused products

Collect all waste in suitable and labeled containers and dispose according to local legislation.

• Uncleaned packagings:

• Recommendation:

Depressurize can

Waste / used products

Waste products and empty packages dispose of in accordance with local regulations.

Empty containers may contain flammable residue and vapors.

14: Transport information

• 14.1 UN-Number

DOT

UN3295

ADR, IMDG, IATA

• 14.2 UN proper shipping name

• DOT

Hydrocarbons, liquid, n.o.s.

• ADR· IMDG, IATA

3295 Hydrocarbons, liquid, n.o.s.

HYDROCARBONS, LIQUID, N.O.S.

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· 14.3 Transport hazard class(es)

· DOT



· Class 3 Flammable liquids
· Label 3

· ADR, IMDG, IATA



· Class 3 Flammable liquids
· Label 3

· 14.4 Packing group

· DOT, ADR, IMDG, IATA III

· 14.5 Environmental hazards:

· Marine pollutant: Not applicable

· 14.6 Special precautions for user

· Danger code (Kemler): Warning: Flammable liquids
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· EMS Number: F-E,S-D

· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

· Transport/Additional information:

· DOT

· Quantity limitations



On passenger aircraft/rail: 60 L



On cargo aircraft only: 220 L



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15: Regulatory information

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

• Section 355 (extremely hazardous substances):

None of the ingredient is listed.

• Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

Section 311/312

Fire hazard Acute health hazard

• TSCA (Toxic Substances Control Act):

On the inventory, or in compliance with the inventory

• Proposition 65

• Chemicals known to cause cancer:

None of the ingredients is listed.

• Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

• Chemicals known to cause reproductive toxicity for males and females:

None of the ingredients is listed.

• Carcinogenicity categories

• EPA (Environmental Protection Agency)

None of the ingredients is listed.

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

None of the ingredients is listed.

15.2 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.

- **Contact:** Sherwin Incorporated
- **Date of preparation / last revision** 01/18/21 / 06/07/2017 / 05/08/2015

• 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
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)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3