



**FLOTEK**  
**PROTEKOL**  
**SAFETY DATA SHEET**

Issue date 08-Mar-2021

Revision Date 08-Mar-2021

Revision Number 1

## 1. IDENTIFICATION

### 1.1. Product identifier

Contains 75% Isopropyl Alcohol w/High Performance Peroxide.  
Product is sold ready for use.

**Product name** Flotek Protekol™ HP+ All-Purpose Cleaner

**Pure substance/mixture** Mixture

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended use** Cleaning agent , Multi-surface cleaning

**Uses advised against** Human Consumption

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

Flotek Chemistry, LLC  
1004 S. Plainsman Road  
Marlow, OK 73055  
Phone +1 (580) 658-6608  
Fax +1 (580) 658-3223

For further information, please contact:

**Contact Point** [www.flotekprotekol.com](http://www.flotekprotekol.com)

**E-mail address** [information@flotekind.com](mailto:information@flotekind.com)

### 1.4. Emergency telephone number

**Emergency telephone** +1 405-282-8510

## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

|  |            |
|--|------------|
| Serious eye damage/eye irritation                | Category 2 |
| Specific target organ toxicity (single exposure) | Category 3 |
| Physical hazards Flammable liquids               | Category 2 |

### 2.2. Label elements

**Signal word**

Danger

**Hazard statements**

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

H225 - Highly flammable liquid and vapor

**Precautionary Statements - EU (§28, 1272/2008)**

P370 + P378 - In case of fire: Use dry sodium carbonate to extinguish

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

**2.3. Other hazards****3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical name     | EC No     | CAS No  | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP] | REACH registration number |
|-------------------|-----------|---------|----------|---|---------------------------|
| Isopropyl alcohol | 200-661-7 | 67-63-0 | ~75      | Flam. Liq. 2 (H225)<br>STOT SE 3 (H336)<br>Eye Irrit. 2 (H319)  | No data available         |

**Additional information**

vol/vol percentages

**4. FIRST AID MEASURES****Description of first aid measures****General advice**

Show this material safety data sheet to the doctor in attendance.

**Eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin contact**

None under normal use conditions. If severe irritation develops and persists or an allergic reaction occurs, rinse with soap and water and seek medical attention.

**Ingestion**

Do NOT induce vomiting. Call a physician or poison control center immediately. Rinse mouth. Never give anything by mouth to an unconscious person.

**Inhalation**

Remove to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

**4.2. Most important symptoms and effects, both acute and delayed****Main Symptoms**

Causes central nervous system depression.

**4.3. Indication of any immediate medical attention and special treatment needed****Notes to physician**

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****5.1. Extinguishing media****Suitable Extinguishing Media**

Extinguishing media - small fires. Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam. Extinguishing media - large fires. Water spray, fog or alcohol-resistant foam.

**Extinguishing media which must not be used for safety reasons**

Do not use water jet.

**5.2. Special hazards arising from the substance or mixture****Special Hazard**

Extremely flammable. Will be easily ignited by heat, sparks or flames. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Cool containers with flooding quantities of water until well after fire is out.

**5.3. Advice for firefighters****Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Keep people away from and upwind of spill/leak. Remove all sources of ignition. Stop leak if you can do it without risk. Ensure adequate ventilation. Use personal protective equipment as required. Do not touch or walk through spilled material. All equipment used when handling the product must be grounded.

See Section 12 for additional information.

**6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Do not allow into any sewer, on the ground or into any body of water.

**6.3. Methods and material for containment and cleaning up**

Dike far ahead of liquid spill for later disposal.

Take precautionary measures against static discharges. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

**6.4. Reference to other sections****7. HANDLING AND STORAGE****7.1. Precautions for safe handling**

Ensure adequate ventilation. When transferring large amounts of the product, metal containers should be grounded. Wear personal protective equipment/face protection. Handle in accordance with good industrial hygiene and safety practice. Take precautionary measures against static discharges.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat and sources of ignition.

**7.3. Specific end use(s)**

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Exposure Guidelines

| Chemical name                | ACGIH TLV                     | OSHA PEL  | NIOSH IDLH  |
|------------------------------|-------------------------------|---|---|
| Isopropyl alcohol<br>67-63-0 | STEL: 400 ppm<br>TWA: 200 ppm | TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>(vacated) TWA: 400 ppm<br>(vacated) TWA: 980 mg/m <sup>3</sup><br>(vacated) STEL: 500 ppm<br>(vacated) STEL: 1225 mg/m <sup>3</sup> | IDLH: 2000 ppm<br>TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1225 mg/m <sup>3</sup> |

NIOSH IDLH: Immediately Dangerous to Life or Health

#### Exposure limits

| Chemical name                        | European Union  | United Kingdom  | France   | Spain   | Germany   |
|--------------------------------------|---|---|--|---|---|
| Isopropyl alcohol<br>67-63-0         | -   | STEL: 500 ppm<br>STEL: 1250 mg/m <sup>3</sup><br>TWA: 400 ppm<br>TWA: 999 mg/m <sup>3</sup> | STEL: 400 ppm<br>STEL: 980 mg/m <sup>3</sup>               | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>STEL: 400 ppm<br>STEL: 1000 mg/m <sup>3</sup>   | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>Ceiling / Peak: 400 ppm<br>Ceiling / Peak: 1000 mg/m <sup>3</sup> |
| Component                            | Italy   | Portugal  | Netherlands  | Finland   | Denmark   |
| Isopropyl alcohol<br>67-63-0 ( ~75 ) |   | TWA: 200 ppm<br>STEL: 400 ppm   | TWA: 200 ppm 8hr,<br>500 mg/m <sup>3</sup> 8hr             | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 620 mg/m <sup>3</sup>    | TWA: 200 ppm<br>TWA: 490 mg/m <sup>3</sup>  |
| Chemical name                        | Austria   | Switzerland   | Poland   | Norway  | Ireland   |
| Isopropyl alcohol<br>67-63-0         | STEL 800 ppm<br>STEL 2000 mg/m <sup>3</sup><br>TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup> | STEL: 400 ppm<br>STEL: 1000 mg/m <sup>3</sup><br>TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup> | TWA: 900 mg/m <sup>3</sup><br>STEL: 1200 mg/m <sup>3</sup> | TWA: 100 ppm<br>TWA: 245 mg/m <sup>3</sup><br>STEL: 125 ppm<br>STEL: 306.25 mg/m <sup>3</sup> | TWA: 200 ppm<br>STEL: 400 ppm<br>Sk*  |

#### Derived No Effect Level (DNEL)

No information available

#### Predicted No Effect Concentration (PNEC)

No information available

### 8.2. Exposure controls

#### Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location.

#### Personal protective equipment

##### Eye Protection

None under normal use conditions. If splashes are likely to occur, wear: tightly fitting safety goggles or face-shield, as appropriate.

##### Hand Protection

None under normal use conditions. If submerged for long periods of time, wear butyl or nitrile rubber gloves.

##### Skin and body protection

None under normal use conditions. Wear suitable protective clothing.

##### Respiratory protection

None under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use.

#### Environmental Exposure Controls

The product should not be allowed to enter drains, water courses or the soil.

## 9. Physical and chemical properties

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

|                |                          |
|----------------|--------------------------|
| Physical State | Liquid                   |
| Appearance     | clear                    |
| Color          | colorless                |
| Odor           | Alcohol.                 |
| Odor Threshold | No information available |

| <u>Property</u>                        | <u>Values</u>            | <u>Remarks • Method</u> |
|--|--------------------------|-------------------------|
| pH                                     | 5.75 - 8.75              | neat                    |
| Melting point / freezing point         | < -28.89                 | None known              |
| Boiling point / boiling range          | No data available        | None known              |
| Flash point                            | 20.8 °C                  | CC (closed cup)         |
| Evaporation rate                       | No data available        | None known              |
| Flammability (solid, gas)              | No data available        | None known              |
| Flammability Limit in Air              |                          | None known              |
| Upper flammability or explosive limits | No data available        |                         |
| Lower flammability or explosive limits | No data available        |                         |
| Vapor pressure                         | No data available        | None known              |
| Vapor density                          | No data available        | None known              |
| Relative density                       | 0.824 - 0.884            |                         |
| Water solubility                       | Soluble in water         | None known              |
| Solubility in other solvents           | No data available        | None known              |
| Partition coefficient: n-octanol/water | No data available        | None known              |
| Autoignition temperature               | No data available        | None known              |
| Decomposition temperature              | No data available        | None known              |
| Kinematic viscosity                    | No data available        | None known              |
| Viscosity, dynamic                     | No data available        | None known              |
| Explosive properties                   | No information available |                         |
| Oxidizing properties                   | No information available |                         |

**9.2. Other information**

|                  |                          |
|------------------|--------------------------|
| Softening point  | No information available |
| Molecular Weight | No information available |
| VOC Content (%)  | No information available |
| Liquid Density   | 6.88-7.38 lbs/gal        |
| Bulk density     | No information available |

**10. STABILITY AND REACTIVITY****10.1. Reactivity**

No data available.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Heat (temperatures above flash point), sparks, ignition points, flames, static electricity. Strong oxidizing agents.

**10.5. Incompatible materials**

Strong oxidizing agents. Chlorine. Acids. Isocyanates. Acetaldehyde. Ethylene Oxide. Strong reducing agents. Strong bases.

**Hazardous Decomposition Products**

None under normal use conditions.

**11. TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

**Acute toxicity**  
**Product Information**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | None under normal use conditions. Close exposure to large open volumes or huffing vapors may cause adverse effects. Inhalation of vapors is irritating to the respiratory system, may cause throat pain and cough. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.  |
| <b>Eye contact</b>  | Avoid contact with eyes. Severely irritating to eyes.   |
| <b>Skin contact</b> | None under normal use conditions. Substance may cause slight skin irritation.   |
| <b>Ingestion</b>    | None under normal use conditions. Not an expected route of exposure. Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause adverse cardiac effects. May cause central nervous system depression. May cause drowsiness or dizziness. May cause adverse kidney effects. |

| Chemical name     | Oral LD50            | Dermal LD50  | Inhalation LC50                       |
|-------------------|----------------------|--|---------------------------------------|
| Isopropyl alcohol | = 1870 mg/kg ( Rat ) | 12800 mg/kg ( Rat )<br>12870 mg/kg ( Rabbit )<br>8.00 mL/kg, 6280 mg/kg ( Rabbit ) | = 72600 mg/m <sup>3</sup> ( Rat ) 4 h |

**Chronic toxicity****Sensitization** No information available**Target organ effects** Central nervous system.**12. ECOLOGICAL INFORMATION****12.1. Toxicity****Ecotoxicity** The environmental impact of this product has not been fully investigated. Low order of toxicity based on components.

| Chemical name     | Algae/aquatic plants   | Fish  | Toxicity to microorganisms | Crustacea                             |
|-------------------|--|---|----------------------------|---------------------------------------|
| Isopropyl alcohol | 1000: 72 h Desmodesmus subspicatus mg/L EC50<br>1000: 96 h Desmodesmus subspicatus mg/L EC50 | 9640: 96 h Pimephales promelas mg/L LC50<br>flow-through 11130: 96 h Pimephales promelas mg/L LC50 static 1400000: 96 h Lepomis macrochirus µg/L LC50 | -                          | EC50: =13299mg/L (48h, Daphnia magna) |

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

| Chemical name     | Partition coefficient |
|-------------------|-----------------------|
| Isopropyl alcohol | 0.05                  |

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

No information available

**12.6. Other adverse effects****13. DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods****Waste from Residues/Unused Products**

Dispose of in accordance with local regulations.

**Contaminated packaging**

Do not reuse empty containers.

**EWC Waste Disposal No**

According to the European Waste Catalog, Waste Codes are not product specific, but application specific Waste codes should be assigned by the user based on the application for which the product was used

**14. TRANSPORT INFORMATION****DOT**

|                             |  |
|-----------------------------|--|
| <b>Proper shipping name</b> | UN1219, Isopropanol Solution, 3, PG II |
| <b>Hazard class</b>         | 3                                      |
| <b>UN/ID no</b>             | UN1219                                 |
| <b>Packing Group</b>        | PG II                                  |

**15. REGULATORY INFORMATION****International Inventories**

|                      |          |
|----------------------|----------|
| <b>TSCA</b>          | Complies |
| <b>EINECS/ELINCS</b> | -        |
| <b>DSL/NDSL</b>      | Complies |
| <b>PICCS</b>         | -        |
| <b>ENCS</b>          | -        |
| <b>IECSC</b>         | -        |
| <b>AICS</b>          | -        |
| <b>KECL</b>          | -        |

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances

**15.2. Chemical safety assessment Chemical Safety Report****US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name     | CAS No  | Weight-% | SARA 313 - Threshold Values % |
|-------------------|---------|----------|-------------------------------|
| Isopropyl alcohol | 67-63-0 | ~75      | 1.0                           |

**SARA 311/312 Hazard Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute health hazard               | Yes |
| Chronic Health Hazard             | Yes |
| Fire hazard                       | Yes |
| Sudden release of pressure hazard | No  |
| Reactive Hazard                   | No  |

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

| Chemical name     | WHMIS Hazard Class |
|-------------------|--------------------|
| Isopropyl alcohol | 1 %<br>B2,D2B      |

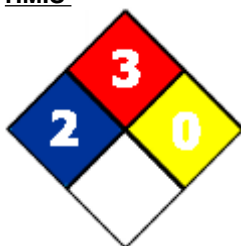
| Chemical name     | NPRI |
|-------------------|------|
| Isopropyl alcohol | X    |

**Legend**

NPRI - National Pollutant Release Inventory

**16. OTHER INFORMATION**

|             |                  |                |                    |                                    |
|-------------|------------------|----------------|--------------------|------------------------------------|
| <u>NFPA</u> | Health hazards 2 | Flammability 3 | Stability 0        | Physical and chemical properties - |
| <u>HMIS</u> | Health hazards 2 | Flammability 3 | Physical hazards 0 | Personal protection -              |



**Full text of H-Statements referred to under sections 2 and 3**

- H319 - Causes serious eye irritation
- H336 - May cause drowsiness or dizziness
- H225 - Highly flammable liquid and vapor

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Legend**

|               |                 |
|---------------|-----------------|
| Issue date    | 08-Mar-2021     |
| Revision Date | 08-Mar-2021     |
| Revision Note | Not applicable. |



This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

US Only: This safety data sheet complies with the requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

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