



JOHNSEN'S WINDSHIELD SOLVENT 6 FL.OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 09/18/2014

Version:

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Trade name : JOHNSEN'S WINDSHIELD SOLVENT 6 FL.OZ.
Product code : 2941

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

Use of the substance/mixture : Windshield Wash Concentrate

1.3. Details of the supplier of the safety data sheet

Technical Chemical Company
P.O. BOX 139
Cleburne, Texas 76033
T 817-645-6088

1.4. Emergency telephone number

Emergency number : CHEMTREC 24 Hour 1-800-424-9300, 1-703-527-3887 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Flam. Liq. 3 H226
Eye Irrit. 2A H319
STOT SE 3 H336

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS02

GHS07

Signal word (GHS-US) :

Warning

Hazard statements (GHS-US) :

H226 - Flammable liquid and vapor
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness

Precautionary statements (GHS-US) :

P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical, ventilating, lighting equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P261 - Avoid breathing dust, fume, gas, mist, vapor spray
P264 - Wash affected areas thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves, protective clothing, eye protection, face protection
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312 - Call a POISON CONTROL CENTER, doctor, if you feel unwell.
P337+P313 - If eye irritation persists: Get medical advice/attention
P370+P378 - In case of fire: See Section 5.1 Extinguishing Media
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.

2.3. Other hazards

Other hazards not contributing to the classification

: None under normal conditions.

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2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product identifier | % | Classification (GHS-US) |
|---|----------------------|-------------|--|
| Water | (CAS No) 7732-18-5 | 50 - 70 | Not classified |
| 2-Propanol | (CAS No) 67-63-0 | 30 - 50 | Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336 |
| Nonlyphenol Ethoxylate | (CAS No) 127087-87-0 | 1 - 5 | Eye Irrit. 2B, H320 |
| Ammonium Hydroxide, Aqueous Solution, Conc=25% | (CAS No) 1336-21-6 | < 1 | Skin Corr. 1B, H314 Aquatic Acute 1, H400 |
| Polyethylene Glycol 200-600 | (CAS No) 25322-68-3 | <= 0.06 | Not classified |
| Nonyl Nonoxynol-5 | (CAS No) 9014-93-1 | <= 0.04 | Not classified |
| Hydrogen [4-[4-(Diethylamino)-2',4'-Disulphonatobenzhydrylidene] Cyclohexa-2,5-Dien-1-ylidene] Diethylammonium, Sodium Salt | (CAS No) 129-17-9 | ~ 0.0000001 | Not classified |

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | : Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell. |
| First-aid measures after skin contact | : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|--------------------------------------|---|
| Symptoms/injuries after inhalation | : May cause drowsiness or dizziness. |
| Symptoms/injuries after skin contact | : May cause slight irritation . May cause moderate irritation. |
| Symptoms/injuries after eye contact | : May cause slight eye irritation . May cause severe irritation. Causes serious eye irritation. |
| Symptoms/injuries after ingestion | : May be harmful if swallowed and enters airways. |

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

| | |
|------------------|---|
| Fire hazard | : Flammable liquid and vapor. |
| Explosion hazard | : May form flammable/explosive vapor-air mixture. |

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|--|
| General measures | : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking. |
|------------------|--|

6.1.1. For non-emergency personnel

| | |
|----------------------|-----------------------------------|
| Protective equipment | : Gloves. Safety glasses. |
| Emergency procedures | : Evacuate unnecessary personnel. |

6.1.2. For emergency responders

| | |
|----------------------|--|
| Protective equipment | : Equip cleanup crew with proper protection. Avoid breathing dust,fume,gas,mist,vapor spray. |
| Emergency procedures | : Ventilate area. |

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6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Dam up the solid spill. Plug the leak, cut off the supply. Contain released substance, pump into suitable containers.
- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.
- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No naked lights. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing dust, fume, gas, mist, vapor spray. Use only outdoors or in a well-ventilated area.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after handling. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting equipment.
- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container tightly closed.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use(s)

Follow Label Directions.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| 2-Propanol (67-63-0) | | |
|----------------------|-------------------------------------|------------------------|
| USA ACGIH | ACGIH TWA (mg/m ³) | 980 mg/m ³ |
| USA ACGIH | ACGIH TWA (ppm) | 400 ppm |
| USA ACGIH | ACGIH STEL (mg/m ³) | 1225 mg/m ³ |
| USA ACGIH | ACGIH STEL (ppm) | 500 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 980 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 400 ppm |

8.2. Exposure controls

- Appropriate engineering controls : Local exhaust ventilation, vent hoods.
- Personal protective equipment : Gloves. Safety glasses. Avoid all unnecessary exposure.



- Hand protection : Wear protective gloves.
- Eye protection : Chemical goggles or safety glasses.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
- Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid

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| | |
|---|--|
| Appearance | : Liquid. |
| Color | : Blue. |
| Odor | : Mild . Ammonia odour. Alcohol odour. |
| Odor threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : 82 °C (Lowest Component) |
| Flash point | : 29 °C |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : 0.93 |
| Solubility | : Soluble in water. Water: 95 % |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

| | |
|-----------------------|----------|
| Specific conductivity | : 0 µS/m |
| VOC content | : 40 % |

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Toxic fume. . Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| 2-Propanol (67-63-0) | |
|--|---|
| LD50 oral rat | 5045 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; 5840 mg/kg bodyweight; Rat) |
| LD50 dermal rabbit | 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit) |
| LC50 inhalation rat (mg/l) | 73 mg/l/4h (Rat) |
| Polyethylene Glycol 200-600 (25322-68-3) | |
| LD50 oral rat | > 15000 mg/kg (Rat) |
| LD50 dermal rabbit | > 20000 mg/kg (Rabbit) |

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Hydrogen [4-[4-(Diethylamino)-2',4'-Disulphonatobenzhydrylidene] Cyclohexa-2,5-Dien-1-ylidene] Diethylammonium, Sodium Salt (129-17-9)

| | |
|-----------------------------------|----------------------------------|
| LD50 oral rat | 3001 mg/kg (Rat) |
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |

2-Propanol (67-63-0)

| | |
|------------|---|
| IARC group | 3 |
|------------|---|

Hydrogen [4-[4-(Diethylamino)-2',4'-Disulphonatobenzhydrylidene] Cyclohexa-2,5-Dien-1-ylidene] Diethylammonium, Sodium Salt (129-17-9)

| | |
|---|---|
| IARC group | 3 |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single exposure) | : May cause drowsiness or dizziness. |
| Specific target organ toxicity (repeated exposure) | : Not classified |
| Aspiration hazard | : Not classified |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |
| Symptoms/injuries after inhalation | : May cause drowsiness or dizziness. |
| Symptoms/injuries after skin contact | : May cause slight irritation . May cause moderate irritation. |
| Symptoms/injuries after eye contact | : May cause slight eye irritation . May cause severe irritation. Causes serious eye irritation. |
| Symptoms/injuries after ingestion | : May be harmful if swallowed and enters airways. |

SECTION 12: Ecological information

12.1. Toxicity

2-Propanol (67-63-0)

| | |
|-------------------------|---|
| LC50 fish 1 | 4200 mg/l (96 h; Rasbora heteromorpha; Flow-through system) |
| EC50 Daphnia 1 | > 10000 mg/l (48 h; Daphnia magna) |
| LC50 fish 2 | 9640 mg/l (96 h; Pimephales promelas; Lethal) |
| EC50 Daphnia 2 | 13299 mg/l (48 h; Daphnia magna) |
| Threshold limit algae 1 | > 1000 mg/l (72 h; Scenedesmus subspicatus; Growth rate) |
| Threshold limit algae 2 | 1800 mg/l (72 h; Algae; Cell numbers) |

Polyethylene Glycol 200-600 (25322-68-3)

| | |
|---|---------------------------------------|
| LC50 fish 1 | > 1000 mg/l (96 h; Pisces) |
| LC50 other aquatic organisms 1 | > 1000 mg/l (96 h) |
| LC50 fish 2 | > 5000 mg/l (24 h; Carassius auratus) |
| Threshold limit other aquatic organisms 1 | <= 100 mg/l (96 h; Plankton) |
| Threshold limit other aquatic organisms 2 | > 1000 mg/l |
| Threshold limit algae 2 | 500 mg/l (720 h; Algae; No effect) |

12.2. Persistence and degradability

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| | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

Nonlyphenol Ethoxylate (127087-87-0)

| | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

2-Propanol (67-63-0)

| | |
|---------------------------------|--|
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test)data on mobility of the substance available. |
| Biochemical oxygen demand (BOD) | 1.19 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.23 g O ₂ /g substance |
| ThOD | 2.40 g O ₂ /g substance |
| BOD (% of ThOD) | 0.49 % ThOD |

Polyethylene Glycol 200-600 (25322-68-3)

| | |
|-------------------------------|---|
| Persistence and degradability | Biodegradability in water: no data available. |
|-------------------------------|---|

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| Nonyl Nonoxynol-5 (9014-93-1) | |
|--------------------------------------|------------------|
| Persistence and degradability | Not established. |

| Ammonium Hydroxide, Aqueous Solution, Conc=25% (1336-21-6) | |
|---|--|
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. No (test) data on mobility of the components available. Ozonation in the air. |

| Water (7732-18-5) | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

| Hydrogen [4-[4-(Diethylamino)-2',4'-Disulphonatobenzhydrylidene] Cyclohexa-2,5-Dien-1-ylidene] Diethylammonium, Sodium Salt (129-17-9) | |
|---|---|
| Persistence and degradability | Biodegradability in water: no data available. |

12.3. Bioaccumulative potential

| JOHNSEN'S WINDSHIELD SOLVENT 6 FL.OZ. | |
|--|------------------|
| Bioaccumulative potential | Not established. |

| Nonlyphenol Ethoxylate (127087-87-0) | |
|---|------------------|
| Bioaccumulative potential | Not established. |

| 2-Propanol (67-63-0) | |
|-----------------------------|--|
| Log Pow | 0.05 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

| Polyethylene Glycol 200-600 (25322-68-3) | |
|---|----------------------------------|
| Log Pow | -1.2 |
| Bioaccumulative potential | Bioaccumulation: not applicable. |

| Nonyl Nonoxynol-5 (9014-93-1) | |
|--------------------------------------|------------------|
| Bioaccumulative potential | Not established. |

| Ammonium Hydroxide, Aqueous Solution, Conc=25% (1336-21-6) | |
|---|----------------------|
| Bioaccumulative potential | Not bioaccumulative. |

| Water (7732-18-5) | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

| Hydrogen [4-[4-(Diethylamino)-2',4'-Disulphonatobenzhydrylidene] Cyclohexa-2,5-Dien-1-ylidene] Diethylammonium, Sodium Salt (129-17-9) | |
|---|----------------------------------|
| Log Pow | -5.340 (Estimated value) |
| Bioaccumulative potential | Bioaccumulation: not applicable. |

12.4. Mobility in soil

| 2-Propanol (67-63-0) | |
|-----------------------------|-------------------|
| Surface tension | 0.021 N/m (25 °C) |

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Avoid release to the environment.

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SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| | |
|---------------------|---|
| US DOT (ground): | UN1993, Flammable liquids, n.o.s. (Isopropyl Alcohol), 3, III, Limited Quantity |
| ICAO/IATA (air): | UN1993, Flammable liquids, n.o.s. (Isopropyl Alcohol), 3, III, Limited Quantity |
| IMO/IMDG (water): | UN1993, Flammable liquids, n.o.s. (Isopropyl Alcohol), 3, III, Limited Quantity |
| Special Provisions: | <p>B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.</p> <p>B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.</p> <p>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</p> <p>T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)</p> <p>TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.</p> <p>TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.</p> |

14.2. UN proper shipping name

| | |
|---|---|
| Proper Shipping Name (DOT) | : Flammable liquids, n.o.s. (Isopropyl Alcohol) |
| Department of Transportation (DOT) Hazard Classes | : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 |
| Hazard labels (DOT) | : 3 - Flammable liquid |



| | |
|---|---|
| DOT Symbols | : G - Identifies PSN requiring a technical name |
| Packing group (DOT) | : III - Minor Danger |
| DOT Special Provisions (49 CFR 172.102) | <p>B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.</p> <p>B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.</p> <p>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</p> <p>T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)</p> <p>TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.</p> <p>TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.</p> |
| DOT Packaging Exceptions (49 CFR 173.xxx) | : 150 |
| DOT Packaging Non Bulk (49 CFR 173.xxx) | : 203 |
| DOT Packaging Bulk (49 CFR 173.xxx) | : 242 |

14.3. Additional information

| | |
|-------------------|---|
| Other information | : No supplementary information available. |
|-------------------|---|

Overland transport

No additional information available

Transport by sea

| | |
|-----------------------------|---|
| DOT Vessel Stowage Location | : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel. |
|-----------------------------|---|

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Air transport

DOT Quantity Limitations Passenger aircraft/rail : 60 L
(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L
CFR 175.75)

SECTION 15: Regulatory information

15.1. US Federal regulations

JOHNSEN'S WINDSHIELD SOLVENT 6 FL.OZ.

| | |
|-------------------------------------|---|
| SARA Section 311/312 Hazard Classes | Fire hazard Delayed (chronic) health hazard Immediate (acute) health hazard |
|-------------------------------------|---|

Nonlyphenol Ethoxylate (127087-87-0)

Listed on United States SARA Section 313

| | |
|-------------------------------------|--|
| SARA Section 311/312 Hazard Classes | Delayed (chronic) health hazard Immediate (acute) health hazard |
|-------------------------------------|--|

| | |
|---------------------------------------|-------------------|
| SARA Section 313 - Emission Reporting | 5 % Glycol Ethers |
|---------------------------------------|-------------------|

2-Propanol (67-63-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

| | |
|-------------------------------------|---|
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard Delayed (chronic) health hazard Fire hazard |
|-------------------------------------|---|

15.2. International regulations

CANADA

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| | |
|----------------------|---------------------------------------|
| WHMIS Classification | Class B Division 2 - Flammable Liquid |
|----------------------|---------------------------------------|

2-Propanol (67-63-0)

Listed on the Canadian DSL (Domestic Substances List)

| | |
|----------------------|---------------------------------------|
| WHMIS Classification | Class B Division 2 - Flammable Liquid |
|----------------------|---------------------------------------|

EU-Regulations

2-Propanol (67-63-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xi; R36

R10

R67

Full text of R-phrases: see section 16

15.2.2. National regulations

2-Propanol (67-63-0)

Listed on AICS (Australian Inventory of Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

15.3. US State regulations

2-Propanol (67-63-0)

U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

SECTION 16: Other information

Other information : None.

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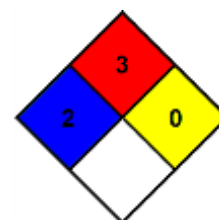
Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases: see section 16:

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|-----------------|--|
| Aquatic Acute 1 | Hazardous to the aquatic environment - Acute Hazard Category 1 |
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
| Eye Irrit. 2B | Serious eye damage/eye irritation Category 2B |
| Flam. Liq. 2 | Flammable liquids Category 2 |
| Flam. Liq. 3 | Flammable liquids Category 3 |
| Skin Corr. 1B | Skin corrosion/irritation Category 1B |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H225 | Highly flammable liquid and vapor |
| H226 | Flammable liquid and vapor |
| H314 | Causes severe skin burns and eye damage |
| H319 | Causes serious eye irritation |
| H320 | Causes eye irritation |
| H336 | May cause drowsiness or dizziness |
| H400 | Very toxic to aquatic life |

- NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
- NFPA fire hazard : 3 - Liquids and solids that can be ignited under almost all ambient conditions.
- NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

- Health : 2 Moderate Hazard - Temporary or minor injury may occur
- Flammability : 3 Serious Hazard
- Physical : 0 Minimal Hazard
- Personal Protection : B

SDS US (GHS HazCom 2012) - TCC

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product

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