SAFETY DATA SHEET
Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: HOOVER ALL PURPOSE CLEANER - AH30437 AH30037

Other means of identification
SDS number: RE1000044984

Recommended restrictions
Recommended use: Cleaner
Restrictions on use: Not known.

Manufacturer Information
Manufacturer
Company Name: TTI FLOOR CARE NA INC
Address: 8405 IBM DRIVE
CHARLOTTE, NC 28262
US
Telephone: 704-280-2045

Emergency telephone number: 1-866-836-8855

2. Hazard(s) identification

Hazard Classification

Health Hazards
Skin sensitizer Category 1

Label Elements

Hazard Symbol:

Signal Word: Warning

Hazard Statement: May cause an allergic skin reaction.

Precautionary Statements

Prevention: Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

Response: IF ON SKIN: Wash with plenty of water If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see on this label). Wash contaminated clothing before reuse.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS number</th>
<th>Content in percent (%)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td>112-34-5</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Proprietary Fragrance</td>
<td>0.1 - &lt;1%</td>
<td></td>
</tr>
</tbody>
</table>

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

Inhalation: Move to fresh air.

Skin Contact: Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.

Eye contact: Rinse immediately with plenty of water.

Ingestion: Rinse mouth thoroughly.

Personal Protection for First-aid Responders: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

5. Fire-fighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.
Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning up: Stop the flow of material, if this is without risk. Absorb with sand or other inert absorbent.

Environmental Precautions: Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation): No data available.

Safe handling advice: Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Store away from incompatible materials. Store in original tightly closed container.

Safe packaging materials: No data available.

Storage Temperature: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-glycol</td>
<td>TWA</td>
<td>10 ppm</td>
<td>US. ACGIH Threshold Limit Values, as amended</td>
</tr>
<tr>
<td>Potassium hydroxide (K(OH))</td>
<td>Ceiling</td>
<td>2 mg/m3</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended</td>
</tr>
<tr>
<td></td>
<td>Ceiling</td>
<td>2 mg/m3</td>
<td>US. ACGIH Threshold Limit Values, as amended</td>
</tr>
<tr>
<td></td>
<td>Ceil_Time</td>
<td>2 mg/m3</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards, as amended</td>
</tr>
<tr>
<td>Sodium hydroxide (Na(OH))</td>
<td>Ceil_Time</td>
<td>2 mg/m3</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards, as amended</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>2 mg/m3</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended</td>
</tr>
<tr>
<td></td>
<td>Ceiling</td>
<td>2 mg/m3</td>
<td>US. ACGIH Threshold Limit Values, as amended</td>
</tr>
<tr>
<td></td>
<td>Ceiling</td>
<td>2 mg/m3</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended</td>
</tr>
<tr>
<td>Oxirane</td>
<td>Cell_Time</td>
<td>5 ppm</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards, as amended</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1 ppm</td>
<td>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>5 ppm</td>
<td>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended</td>
</tr>
<tr>
<td></td>
<td>OSHA_ACT</td>
<td>0.5 ppm</td>
<td>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended</td>
</tr>
</tbody>
</table>
**Biological Limit Values**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxirane (N-(2-hydroxyethyl)-valine (HEV) hemoglobin adducts: Sampling time: Not critical.)</td>
<td>5000 pmol/g (Hemoglobin adducts)</td>
<td>ACGIH BEL</td>
</tr>
<tr>
<td>Oxirane (S-(2-hydroxyethyl) mercapturic acid (HEMA): Sampling time: End of shift.)</td>
<td>5 µg/g (Creatinine in urine)</td>
<td>ACGIH BEL</td>
</tr>
</tbody>
</table>

**Appropriate Engineering Controls**

No data available.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection:** Wear goggles/face shield.

**Skin Protection**

**Hand Protection:** No data available.

**Skin and Body Protection:** Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

**Hygiene measures:** Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin. Observe good industrial hygiene practices.

**9. Physical and chemical properties**

**Appearance**

- **Physical state:** liquid
- **Form:** liquid
- **Color:** No data available.
- **Odor:** No data available.
- **Odor Threshold:** No data available.
- **pH:** No data available.
- **Freezing point:** No data available.
- **Boiling Point:** Estimated 100 °C
- **Flash Point:** Estimated 98.9 °C
- **Evaporation Rate:** No data available.
- **Flammability (solid, gas):** No data available.
- **Explosive limit - upper (%):** No data available.
- **Explosive limit - lower (%):** No data available.
- **Vapor pressure:** No data available.
- **Vapor density (air=1):** No data available.
- **Density:** No data available.
- **Relative density:** No data available.
- **Solubility in Water:** No data available.
- **Solubility (other):** No data available.
- **Partition coefficient (n-octanol/water):** No data available.
Self Ignition Temperature: No data available.
Decomposition Temperature: No data available.
Kinematic viscosity: No data available.
Dynamic viscosity: No data available.
Explosive properties: No data available.
Oxidizing properties: No data available.

### 10. Stability and reactivity

<table>
<thead>
<tr>
<th>Reactivity:</th>
<th>No data available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Stability:</td>
<td>Material is stable under normal conditions.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions:</td>
<td>No data available.</td>
</tr>
<tr>
<td>Conditions to avoid:</td>
<td>Avoid heat or contamination.</td>
</tr>
<tr>
<td>Incompatible Materials:</td>
<td>No data available.</td>
</tr>
<tr>
<td>Hazardous Decomposition Products:</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

### 11. Toxicological information

#### Information on likely routes of exposure

<table>
<thead>
<tr>
<th>Inhalation:</th>
<th>No data available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Contact:</td>
<td>No data available.</td>
</tr>
<tr>
<td>Eye contact:</td>
<td>No data available.</td>
</tr>
<tr>
<td>Ingestion:</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

#### Symptoms related to the physical, chemical and toxicological characteristics

<table>
<thead>
<tr>
<th>Inhalation:</th>
<th>No data available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Contact:</td>
<td>No data available.</td>
</tr>
<tr>
<td>Eye contact:</td>
<td>No data available.</td>
</tr>
<tr>
<td>Ingestion:</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

#### Information on toxicological effects

**Acute toxicity (list all possible routes of exposure)**

<table>
<thead>
<tr>
<th>Oral Product:</th>
<th>ATEmix: 135,233.71 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dermal Product:</td>
<td>ATEmix: 155,097.92 mg/kg</td>
</tr>
<tr>
<td>Inhalation Product:</td>
<td>Not classified for acute toxicity based on available data.</td>
</tr>
<tr>
<td>Repeated dose toxicity Product:</td>
<td>No data available.</td>
</tr>
</tbody>
</table>
### Components:

- Ethanol, 2-(2-butoxyethoxy)

#### Skin Corrosion/Irritation

- **Product:** No data available.

#### Serious Eye Damage/Eye Irritation

- **Product:** No data available.

#### Respiratory or Skin Sensitization

- **Product:** No data available.

#### Carcinogenicity

- **Product:** No data available.

#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

#### US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified

#### Germ Cell Mutagenicity

- **In vitro**
  - **Product:** No data available.

- **In vivo**
  - **Product:** No data available.

#### Reproductive toxicity

- **Product:** No data available.

#### Specific Target Organ Toxicity - Single Exposure

- **Product:** No data available.

#### Specific Target Organ Toxicity - Repeated Exposure

- **Product:** No data available.

#### Aspiration Hazard

- **Product:** No data available.

#### Other effects

- No data available.
12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish
Product: No data available.

Components:
Ethanol, 2-(2-butoxyethoxy)-
LC 50 (Pimephales promelas, 96 h): 2,400 mg/l Experimental result, Supporting study

Aquatic Invertebrates
Product: No data available.

Components:
Ethanol, 2-(2-butoxyethoxy)-
LC 50 (Daphnia magna, 48 h): +/- 1,743 mg/l QSAR QSAR, Supporting study

Chronic hazards to the aquatic environment:

Fish
Product: No data available.

Aquatic Invertebrates
Product: No data available.

Toxicity to Aquatic Plants
Product: No data available.

Persistence and Degradability

Biodegradation
Product: No data available.

Components:
Ethanol, 2-(2-butoxyethoxy)-
85 % (28 d) Detected in water. Experimental result, Key study

BOD/COD Ratio
Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)
Product: No data available.

Partition Coefficient n-octanol / water (log Kow)
Product: No data available.

Mobility in soil:
No data available.

Components:
Ethanol, 2-(2-butoxyethoxy)-
Proprietary Fragrance
No data available.

Other adverse effects:
No data available.

13. Disposal considerations

Disposal instructions: Wash before disposal. Dispose to controlled facilities.

Contaminated Packaging: No data available.
14. Transport information

DOT
Not regulated.

IATA
Not regulated.

IMDG
Not regulated.

15. Regulatory information

US Federal Regulations

Restrictions on use: Not known.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>OSHA hazard(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxirane</td>
<td>Skin sensitization</td>
</tr>
<tr>
<td></td>
<td>Acute toxicity</td>
</tr>
<tr>
<td></td>
<td>Cancer</td>
</tr>
<tr>
<td></td>
<td>Reproductive toxicity</td>
</tr>
<tr>
<td></td>
<td>Mutagenicity</td>
</tr>
<tr>
<td></td>
<td>Central nervous system</td>
</tr>
<tr>
<td></td>
<td>Eye irritation</td>
</tr>
<tr>
<td></td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td></td>
<td>Skin irritation</td>
</tr>
<tr>
<td></td>
<td>Flammability</td>
</tr>
</tbody>
</table>

CERCLA Hazardous Substance List (40 CFR 302.4):

<table>
<thead>
<tr>
<th>Chemical Identity</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLYCOL ETHERS</td>
</tr>
<tr>
<td>POTASSIUM HYDROXIDE</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
</tr>
<tr>
<td>ETHYLENE OXIDE</td>
</tr>
<tr>
<td>OXIRANE</td>
</tr>
</tbody>
</table>

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Respiratory or Skin Sensitization

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

<table>
<thead>
<tr>
<th>Chemical Identity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxirane</td>
</tr>
</tbody>
</table>

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>% by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td>1.0%</td>
</tr>
</tbody>
</table>

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
US State Regulations

US. California Proposition 65

WARNING: This product can expose you to chemicals including, Oxirane which is [are] known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity
Ethanol, 2-(2-butoxyethoxy)-

US. Massachusetts RTK - Substance List

Chemical Identity
Oxirane
Glycine, N,N-bis(carboxymethyl)-, sodium salt (1:3)

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity
Ethanol, 2-(2-butoxyethoxy)-

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

International regulations

Montreal protocol
Not applicable

Stockholm convention
Not applicable

Rotterdam convention
Not applicable

Kyoto protocol
Not applicable

Inventory Status:

Australia AICS
Not in compliance with the inventory.

Canada DSL Inventory List
Not in compliance with the inventory.

Canada NDSL Inventory
Not in compliance with the inventory.

Ontario Inventory
Not in compliance with the inventory.

China Inv. Existing Chemical Substances
Not in compliance with the inventory.

Japan (ENCS) List
Not in compliance with the inventory.

Japan ISHL Listing
Not in compliance with the inventory.

Japan Pharmacopoeia Listing
Not in compliance with the inventory.

Korea Existing Chemicals Inv. (KECI)
Not in compliance with the inventory.

Mexico INSQ
Not in compliance with the inventory.

New Zealand Inventory of Chemicals
Not in compliance with the inventory.

Philippines PICCS
Not in compliance with the inventory.

Taiwan Chemical Substance Inventory
Not in compliance with the inventory.

US TSCA Inventory
On or in compliance with the inventory.

EINECS, ELINCS or NLP
Not in compliance with the inventory.
### 16. Other information, including date of preparation or last revision

<table>
<thead>
<tr>
<th><strong>Issue Date:</strong></th>
<th>01/20/2021</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revision Information:</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Version #:</strong></td>
<td>1.0</td>
</tr>
<tr>
<td><strong>Further Information:</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Disclaimer:</strong></td>
<td>This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.</td>
</tr>
</tbody>
</table>