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

1.1 Product identifier

Trade name: ICE BLOCK

Article number: 15128, 15640, 15550

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 Coolant / Anti-freeze.

1.3 Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier:
Highside Chemicals, Inc.
11114 Reichold Road
Gulfport, MS 39503 USA
Phone: (228) 896-9220

1.4 Emergency telephone number:
ChemTel Inc.
(800)255-3924, +1 (813)248-0585

2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
The product is not classified as hazardous according to GHS regulations.

The product is not classified as hazardous according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.

Information concerning particular hazards for human and environment:
The product does not have to be labelled due to the calculation procedure of the "General Classification
guideline for preparations of the EU" in the latest valid version.

Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and
literature data.
The classification is in accordance with the latest editions of international substances lists, and is
supplemented by information from technical literature and by information provided by the company.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Not Regulated

Hazard pictograms Not Regulated
Sign word Not Regulated

Hazard-determining components of labelling: None.

Hazard statements Not Regulated

Hazard description:
WHMIS-symbols: Not hazardous under WHMIS.

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Trade name: ICE BLOCK

NFPA ratings (scale 0 - 4)

Health = 0
Fire = 1
Reactivity = 0

HMIS ratings (scale 0 - 4)

HEALTH Health = 0
FIRE Fire = 1
REACTIVITY Reactivity = 0

HMIS Long Term Health Hazard Substances
None of the ingredients is listed.

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

3 Composition/information on ingredients

3.2 Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

| CAS: 57-55-6 | Propylene Glycol | substance with a Community workplace exposure limit 50-100% |
| EINECS: 200-338-0 | |

Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures
General information: Immediately remove any clothing soiled by the product.
After inhalation: Supply fresh air; consult doctor in case of complaints.
After skin contact:
Immediately rinse with water.
If skin irritation continues, consult a doctor.
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:
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed
Cramp
Gastric or intestinal disorders.
Nausea

(Contd. on page 3)
Trade name: ICE BLOCK

Hazard: No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5 Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
For safety reasons unsuitable extinguishing agents: None.

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters
Protective equipment:
Wear self-contained respiratory protective device.
Wear fully protective suit.

Additional information No further relevant information available.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use respiratory protective device against the effects of fumes/dust/aerosol.
Ensure adequate ventilation
Particular danger of slipping on leaked/spilled product.
Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions: No special measures required.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Pick up mechanically.
Dispose contaminated material as waste according to item 13.

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 Store in cool, dry place in tightly closed receptacles.
Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:
Avoid storage near extreme heat, ignition sources or open flame.
No special requirements.

Information about storage in one common storage facility:
Store away from foodstuffs.
Store away from oxidizing agents.

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8 Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>57-55-6 Propylene Glycol</td>
<td>Long-term value: 10 mg/m³</td>
</tr>
<tr>
<td>WEEL (USA)</td>
<td>Long-term value: 155* 10** mg/m³, 50* ppm</td>
</tr>
<tr>
<td>EV (Canada)</td>
<td>&quot;vapour and aerosol;**aerosol only</td>
</tr>
</tbody>
</table>

DNELs No further relevant information available.
PNECs No further relevant information available.
Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:
General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.
Avoid contact with the eyes.
Avoid close or long term contact with the skin.
Respiratory protection:
Not required under normal conditions of use.
For spills, respiratory protection may be advisable.
Use suitable respiratory protective device when aerosol or mist is formed.
Protection of hands:
Not required under normal conditions of use.
Wear protective gloves to handle contents of damaged or leaking units.
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.

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GHS

Trade name: ICE BLOCK

Eye protection:
Safety glasses

Body protection:
Not required under normal conditions of use.
Protection may be required for spills.

Limitation and supervision of exposure into the environment
No special requirements.

Risk management measures
No special requirements.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties
General Information
Appearance:
Form: Liquid
Colour: Colourless
Odour: Mild
Odour threshold: Not determined.

pH-value at 20 °C: 9,0 - 9,5

Change in condition
Melting point/Melting range: Not Determined.
Boiling point/Boiling range: >212 °F / >100 °C

Flash point:
Not determined.

Flammability (solid, gaseous):
Not applicable.

Auto/Self-ignition temperature:
700 ° F / 371 °C

Decomposition temperature:
Not determined.

Self-igniting:
Product is not self-igniting.

Danger of explosion:
Product does not present an explosion hazard.

Explosion limits:
Lower: 2,6 Vol %
Upper: 12,6 Vol %

Vapour pressure at 20 °C: 23 hPa

Density at 20 °C: 1,035 - 1,045 g/cm³

Relative density:
Not determined.

Vapour density:
Not determined.

Evaporation rate:
Not determined.

Solubility in / Miscibility with water:
Fully miscible.

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10 Stability and reactivity

10.1 Reactivity
10.2 Chemical stability
Thermal decomposition / conditions to be avoided:
No decomposition if used and stored according to specifications.
10.3 Possibility of hazardous reactions
Reacts with strong oxidizing agents.
Reacts with strong acids.
Reacts with strong alkali.
10.4 Conditions to avoid Store away from oxidizing agents.
10.5 Incompatible materials: No further relevant information available.
10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

11.1 Information on toxicological effects
Acute toxicity:
Primary irritant effect:
on the skin: No irritant effect.
on the eye: Slight irritant effect on eyes.
Sensitization: No sensitizing effects known.
Additional toxicological information:
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

12.1 Toxicity
Aquatic toxicity: No further relevant information available.
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.

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Additional ecological information:  
General notes:  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
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  
Smaller quantities can be disposed of with household waste.  
Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.  

Uncleaned packaging:  
Recommendation: Disposal must be made according to official regulations.  
Recommended cleansing agents: Water, if necessary together with cleansing agents.  

14 Transport information  

14.1 UN-Number  
DOT, ADR, ADN, IMDG, IATA  
Not Regulated  

14.2 UN proper shipping name  
DOT, ADR, ADN, IMDG, IATA  
Not Regulated  

14.3 Transport hazard class(es)  
DOT, ADR, ADN, IMDG, IATA  
Class  
Not Regulated  

14.4 Packing group  
DOT, ADR, IMDG, IATA  
Not Regulated  

14.5 Environmental hazards:  
Marine pollutant:  
No  

14.6 Special precautions for user  
Not applicable.  

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  
UN "Model Regulation":  
Not applicable.  

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### 15 Regulatory information

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

**United States (USA)**

**SARA**

| Section 355 (extremely hazardous substances): | None of the ingredients is listed. |
| Section 313 (Specific toxic chemical listings): | None of the ingredients is listed. |

**TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**Proposition 65 (California):**

| Chemicals known to cause cancer: | None of the ingredients is listed. |
| Chemicals known to cause reproductive toxicity for females: | None of the ingredients is listed. |
| Chemicals known to cause reproductive toxicity for males: | None of the ingredients is listed. |
| Chemicals known to cause developmental toxicity: | None of the ingredients is listed. |

**Carcinogenic Categories**

**EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

**Canada**

**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%)**

57-55-6 Propylene Glycol
Trade name: ICE BLOCK

Other regulations, limitations and prohibitive regulations
This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Substances of very high concern (SVHC) according to REACH, Article 57
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.

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 Harmonized 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)
WHMIS: Workplace Hazardous Materials Information System (Canada)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)

Sources
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