



## MATERIAL SAFETY DATA SHEET

### 1. Identification, Supplier and Contact Numbers

Product name : Safethaw™  
Product type : De-icer / Anti-icer / Anti corrosion Liquid  
Supplier : JPCS  
Contact number for technical information : See above

### 2. Composition and Process

Produced from Sodium Chloride (99.9%), water and evaporated co-products from the sugar, starch, cereal carbohydrate processing and distillation industries

### 3. Appearance and Smell

Dark brown liquid with non-pungent smell

### 4. Hazards Identification

- Inhalation : Not applicable  
- Skin contact : None under normal ambient conditions  
- Eye contact : None under normal conditions  
- Ingestion : None under normal conditions

### 5. First Aid Measures

- Skin : May cause slight irritation, wash area with soap and water  
- Eyes : May cause irritation, flood eye with water

### 6. Accidental Release Measures

Personal precautions : None under normal conditions.  
Environmental precautions : Biodegradable, increases BOD and COD – see 13.  
After spillage/leakage : Contain spills with sand and shovel into appropriate container for disposal.  
Hose down (slippery when wet) into normal sewage serviced by wastewater plant. Prevent direct discharge into watercourses or lakes due to medium/high BOD.

### 7. Storage Conditions

Non or anti-corrosive : Store indoors avoiding direct sunlight at ambient temperatures. Avoid microbiological contamination.

### 8. Transport Considerations

Not considered hazardous or dangerous for conveyance.

### 9. Exposure controls/personal protection

Personal protection : None under normal conditions  
Respiratory protection : Not applicable  
Eye protection : Safety glasses may be desirable when emptying containers or drums.  
Hand protection : Not required, rubber gloves advised

### 10. Physical and chemical properties

Physical state at 25°C : Low viscosity liquid  
Colour : Very dark brown  
Odour : Earthy, non pungent  
Initial boiling point (°C) : >100  
Freezing point (°C) : < minus 30  
Density at 25 °C (kg/m<sup>3</sup>) : About 1275, S.G.= 1.275  
Vapour pressure (hPa) : Not applicable  
Viscosity (cps) at 20 °C : About 30  
Solubility in water (% weight) : Forms infinite aqueous solution  
pH value as is : About 7-8  
Flash point (°C) : Not applicable  
Auto-ignition temperature (°C) : Not applicable  
Explosion limits (lower) (kg/ m<sup>3</sup>) : Not applicable  
Thermal decomposition (°C) : Begins about 100

# MATERIAL SAFETY DATA SHEET

---

## 11. Stability and reactivity

Hazardous decomposition products : Burning can produce CO<sub>2</sub> and water, N compounds  
Materials to avoid : Strong acids and alkalis, oxidising agents

## 12. Microbiological stability

: Stable in storage, some harmless bacterial (e.g. Lactobacillus spp.) growth may occur in warm temperatures. Pathogens will not grow, indeed are killed

## 13. Toxicological information

Acute toxicity : None, non toxic  
Chronic toxicity : None

## 14. Ecological information

No significant environmental hazard or adverse effect from human or animal exposure resulting from accidental release of this material is anticipated. Its components are used in food and feed and there is no LD<sub>50</sub>.

- COD (mgO<sub>2</sub>/g) : About 350  
- BOD (mgO<sub>2</sub>/g) : About 335 (the Environment Agency)

## 15. Disposal considerations

Disposal : See Section 6

## 16. Transport information

Not applicable

## 17. Regulatory information

Symbol(s) : None  
R and or S phrases : None

## 18. Other information

Recommended uses : As an Anti-icer, De-icer and Anti corrosion liquid

The contents and format of this MSDS are in accordance with EC Commission Directive 91/155/EC, as amended by Directive 93/112/EC.

## DISCLAIMER OF LIABILITY

The information in this MSDS was obtained from sources, which we believe to be reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this, and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

***End of document***