



Imperial Sales Co.
PO Box 2236, Dublin, CA 94568

Material Safety Data Sheet

1. COMPANY IDENTIFICATION EMERGENCY TELEPHONE NUMBERS

PRODUCT NUMBER (S): IMPERIAL UNIVERSAL ANTIFREEZE

IPAC, Inc.
11875 Dublin Blvd., Suite A-201
Dublin, CA 94568

HEALTH (24 hr): (925) 556-5530
TRANSPORTATION (24 hr): (925) 556-5530

PRODUCT INFORMATION: MSDS Requests: (925) 556-5530
Environmental, Safety, & Health Inf.: (925) 556-5530
Product Information: (925) 556-5530

2. COMPONENT and PRECAUTIONARY DATA

Imperial Universal Antifreeze - CONTAINING

COMPONENTS	AMOUNT	LIMIT/QTY	AGENCY/TYPE
A. Principal Component:		Weight %	CAS No.
* Ethylene Glycol		93 - 95	107-21-1
Diethylene Glycol		2 - 0	111-46-6
Water		5 Max.	

* Chemicals subject to reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part C72.

B. Precautionary Labels and Statements

Caution: Keep away from heat and strong oxidizing agents.

Since emptied containers contain product residue, follow label warnings even after container is emptied.

"Success is in the Details"



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3. PHYSICAL DATA

- Appearance: Green liquid, mild odor
- Boiling Point: 162.79° C
- Specific Gravity: 1.12 – 1.15
- Vapor Pressure: 0.04
- Solubility in Water: Appreciable

4. FIRE AND EXPLOSION HAZARD DATA

FLAMMABLE PROPERTIES

FLASH POINT: 245° F TOC
FLPA-704 RATING 0

FLAMMABILITY LIMITS LEL 1.5 UEL Not Determined

EXTINGUISHING MEDIA:

Dry chemical, CO₂, Dry Chemical, Foam, Water Fog

FIRE FIGHTING INSTRUCTIONS:

Wear self-contained breathing apparatus and protective clothing.
Unusual Fire and Explosion Hazards: None Known.

5. REACTIVITY

- Stability: Stable, however, avoid contact with strong oxidizing agents.
- Incompatibility: None Known
- Hazardous Decomposition Products: Combustion will produce Carbon Dioxide and probably Carbon Monoxide.
- Hazardous Polymerization: Will Not Occur.

6. HEALTH

A. Exposure Limits

- Threshold Limit Values (TLV): 100 ppm (vapor)
- OSHA Permissible Exposure Limit (PEL): Not Established.

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B. Exposure Effects

- Inhalation: Very toxic in particulate form upon inhalation.
- Eyes: Low hazard for usual handling. Contact with eyes could cause irritation.
- Skin: Low hazard with usual handling. Prolonged contact with skin could cause irritation.
- Ingestion: Oral induction can cause initial Central nervous system stimulation followed by depression. Later, it causes kidney damage, which can terminate fatally. Lethal dose for human reported to be 100 ml.

C. First Aid

- Eyes: Any material that contacts the eye should be washed out immediately and medical attention obtained if any systems are present after washing.
- Inhalation: Remove to fresh air and consult medical personnel.
- Ingestion: Give two glasses of water and induce vomiting. Consult medical personnel.

7. VENTILATION AND PERSONAL PROTECTION

A. Ventilation

Good ventilation should be sufficient to control airborne levels. Supplementary local exhaust ventilation may be needed in special circumstances, such as poorly ventilated spaces, spraying and heating, etc.

B. Respiratory Protection

If respiratory protection is needed and appropriate NIOSH-approved respirator for organic vapor should be worn.

C. Skin and Eye Protection

Wear safety glasses with side shields or goggles. A face shield is recommended. An eye bath should be available. Wash thoroughly after handling. Good hygiene practice should be followed which includes minimizing skin contact.

8. SPECIAL STORAGE AND HANDLING

Keep from contact with strong oxidizing agents and extreme heat in excess of 300C. Since emptied containers retain product residue, follow product label warnings even after Container is emptied.

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9. SPILL, LEAK and DISPOSAL PRACTICES

Steps to be taken in case material is released or spilled: Small spills may be collected with absorbent materials. For larger spills, flush area with water spray. Prevent runoff from entering drains, sewers or streams.

Waste Disposal Method: Dispose of observing all Federal, State, and Local Laws

10. TRANSPORTAION

DOT Hazard Classification: OTHER REGULATED SUBSTANCES, N.O.S.
(CONTAINS ETHYLENE GLYCOL)
9, NA 3082, PGIII
RQ, GUIDE 31
ANTI-FREEZE

THIS ONLY APPLIES TO QUANTITIES OF 5000 POUNDS OR MORE OF ETHYLENE GLYCOL CONCENTRATION.

REVISION DATE 08/31/01

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