

# MATERIAL SAFETY DATA SHEET

## SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

PRODUCT NAME **INO-F- INSTANT HAND SANITIZER**

**INO-de68241 (INO-MD1-1), INO-de68217 (INO-MD1-50), INO-de68278 (INO-MD1-950) #DIN : 02267365**

PRODUCT USE: QUATERNARY BASED HAND SANITIZER

MANUFACTURED For:  
**INO SOLUTIONS**  
Montreal QC H1J 3A1

24 HR. EMERGENCY TELEPHONE NUMBER: 800-424-9300  
TELEPHONE NUMBER FOR INFORMATION: 888-466-4658  
DATE PREPARED: 4/10/09 BY: DAVID WOOD

## SECTION 2 – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

| <u>HAZARDOUS CHEMICAL IDENTITY</u> | <u>CAS NO.</u> | <u>OSHA PEL</u> | <u>ACGIH TLV</u> | <u>OTHER LIMITS RECOMMENDED</u> | <u>% (OPTIONAL)</u> |
|------------------------------------|----------------|-----------------|------------------|---------------------------------|---------------------|
| ETHYL ALCOHOL (ETHANOL)            | 64-17-5        | 1000 ppm        | 1000 ppm         | OSHA-TWA<br>1000 ppm            | 9- 10%              |

## SECTION 3 – PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 189°F  
VAPOR PRESSURE (mm Hg): N/A  
VAPOR DENSITY (AIR = 1): >1  
SOLUBILITY IN WATER: COMPLETE

SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 1.0  
MELTING POINT: N/A  
EVAPORATION RATE (BUTYL ACETATE = 1): >1  
APPEARANCE AND ODOR: CLEAR COLOR,  
ALCOHOL ODOR

## SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): 119° F+  
(TCC)

LEL: N/A

EXTINGUISHING MEDIA: CO<sub>2</sub> OR DRY CHEMICAL

FLAMMABLE LIMITS: N/A

UEL: N/A

SPECIAL FIRE FIGHTING PROCEDURES: APPROVED RESPIRATORS  
SHOULD BE WORN. WATER SPRAY TO COOL EQUIPMENT.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

IF HEATED, VAPOR MAY BE FLAMMABLE. CAN REACT VIGOROUSLY WITH OXIDIZING MATERIALS.

## SECTION 5 – REACTIVITY DATA

CHEMICAL STABILITY:  STABLE  UNSTABLE HAZARDOUS DECOMPOSITION OF BY-PRODUCTS: CO<sub>2</sub> MAY BE FORMED  
CONDITIONS TO AVOID: OPEN FLAMES, SPARKS, OXIDIZING AGENTS DURING COMBUSTION.

INCOMPATIBILITY (MATERIALS TO AVOID): OXIDIZING AGENTS

HAZARDOUS DEPOLYMERIZATION:  MAY OCCUR  WILL NOT OCCUR  
CONDITIONS TO AVOID: NONE

## SECTION 6 – HEALTH HAZARD DATA

ROUTES OF ENTRY: INHALATION:  YES  NO SKIN:  YES  NO INGESTION:  YES  NO EYES:  YES  NO

HEALTH HAZARDS (ACUTE AND CHRONIC): NONE

CARCINOGENICITY:  YES  NO NTP:  YES  NO IARC MONOGRAPHS:  YES  NO OSHA REGULATED:  YES  NO

SIGNS AND SYMPTOMS OF EXPOSURE: MILD EYE IRRITATION

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NO MEDICAL CONDITIONS ARE KNOWN TO BE AGGRAVATED BY THIS PRODUCT.

EMERGENCY AND FIRST AID PROCEDURES:

INGESTION: GIVE 3-4 GLASSES WATER. DO NOT INDUCE VOMITING. CONSULT PHYSICIAN.

EYES: FLUSH WITH WATER FOR 15 MINUTES. CONSULT PHYSICIAN.

## SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION. FLUSH WITH WATER.

WASTE DISPOSAL METHOD: LANDFILL WITHIN ALL LOCAL, STATE AND FEDERAL LAWS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: AVOID HEAT, MAY BUILD PRESSURE, VAPOR MAY BE FLAMMABLE.

OTHER PRECAUTIONS: KEEP AWAY FROM IGNITION SOURCES.

## SECTION 8 – CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE): NONE

VENTILATION:

LOCAL EXHAUST: NONE

MECHANICAL: NONE

PROTECTIVE GLOVES: NONE EYE PROTECTION: YES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: NONE

WORK/HYGENIC PRACTICES: NORMAL CLEANLINESS

SPECIAL: NONE

OTHER: NONE