

MATERIAL SAFETY DATA SHEET U.S. DEPARTMENT OF LABOR  
 MAY BE USED TO COMPLY WITH OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION  
 OSHA'S HAZARD COMMUNICATION STANDARD, (NON-MANDATORY FORM)  
 CFR 1910.1200. STANDARD MUST BE FORM APPROVED  
 CONSULTED FOR SPECIFIC REQUIREMENTS. OMB NO. 1218-0072

IDENTITY (AS USED ON LABEL AND LIST)  
 ISOCLEAN CONCENTRATE

## SECTION I

MANUFACTURER'S NAME	EMERGENCY TELEPHONE NUMBER
ISOLAB, INC.	CHEMTREC (800)424-9300
ADDRESS (NUMBER, STREET,CITY, STATE, AND ZIP CODE)	TELEPHONE NUMBER FOR INFORMATION (800)321-9632 OR (216)825-4525
5566 WOOSTER ROAD WEST	DATE PREPARED
BARBERTON, OH 44203	3/1/90
	SIGNATURE OF PREPARER (OPTIONAL)

## SECTION II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S))	OSHA PEL	ACHIH TLV	OTHER LIMITS RECOMMENDED	% (OP-TIONAL)
WATER	N/A	N/A	N/A	> 80%
CAS # 7732-18-5				
29% ETHANOL/WATER SOLUTION	1000 PPM	1000 PPM	N/A	< 10%
ETHANOL CAS# 64-17-5				
TETRAPOTASSIUM PYROPHOSPHATE	N/A	N/A	N/A	2%
CAS # 7320-34-5				
SODIUM XYLENE SULFONATE	N/A	N/A	N/A	< 3%
CAS# 1300-72-7				
OCTYLPHENOXYPOLYETHOXYETHANOL	N/A	N/A	N/A	2%
CAS # 9002-93-1				

## SECTION III -PHYSICAL/CHEMICAL CHARACTRISTICS

BOILING POINT:	>212	SPECIFIC GRAVITY(H20=1)	1.1
VAPOR PRESSURE (MM HG)	N/A	MELTING POINT	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (BUTYL ACETATE = 1)	N/A

SOLUBILITY IN WATER: TOTAL

APPEARANCE AND ODOR: CLEAR TO LIGHT YELLOW LIQUID, NO ODOR

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED) N/A FLAMMABLE LIMITS N/A LEL N/A UEL N/A

EXTINGUISHING MEDIA: USE MEDIA APPROPRIATE TO SURROUNDING FIRE.

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SPECIAL FIRE FIGHTING PROCEDURES:  
 WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING

UNUSUAL FIRE AND EXPLOSION HAZARDS:  
 NONE KNOWN

## SECTION V - REACTIVITY DATA

STABILITY: STABLE CONDITIONS TO AVOID: NONE

INCOMPATIBILITY (MATERIALS TO AVOID): NONE KNOWN.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: UNKNOWN.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: NONE

SECTION VI - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: INHALATION? YES SKIN? YES INGESTION? YES

HEALTH HAZARDS (ACUTE AND CHRONIC)

INDIVIDUAL INGREDIENTS ARE KNOWN TO CAUSE EYE AND SKIN IRRITATION.

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

SIGNS AND SYMPTOMS OF EXPOSURE:

MAY INCLUDE IRRITATION OF THE EYES AND SKIN. IF LARGE QUANTITIES INHALED,  
MAY BE IRRITATING TO MUCOUS MEMBRANES AND RESPIRATORY TRACT.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

UNKNOWN

EMERGENCY AND FIRST AID PROCEDURES:

FLUSH AFFECTED AREA WITH WATER. INHALED - MOVE TO FRESH AIR.  
INGESTED - SEEK MEDICAL ATTENTION.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

WIPE UP SPILL WITH CLOTH. WASH SPILL AREA WITH WATER.

WASTE DISPOSAL METHOD

FLUSH DOWN SANITARY SEWER.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

AVOID PROLONGED CONTACT WITH CONCENTRATE. SAFE IN DILUTE FORM.  
FOLLOW PACKAGE INSERT.

OTHER PRECAUTIONS:

AVOID CONTACT OF CONCENTRATE WITH EYES, SKIN, CLOTHING. SOLUTION IS SLIGHTLY  
CAUSTIC AND WILL ETCH GLASS ON PROLONGED CONTACT.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE):

NOT REQUIRED

VENTILATION: LOCAL EXHAUST: N/A SPECIAL: N/A  
MECHANICAL (GENERAL) N/A OTHER: N/A

PROTECTIVE GLOVES:

NOT REQUIRED FOR NORMAL USE.

EYE PROTECTION:

SAFETY GLASSES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

NOT REQUIRED

WORK/HYGIENIC PRACTICES:

WASH AFTER HANDLING

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 CONSULTED FOR SPECIFIC REQUIREMENTS. OMB NO. 1218-0072

IDENTITY (AS USED ON LABEL AND LIST)  
 RADCON SURFACE CLEANER

## SECTION I

MANUFACTURER'S NAME	EMERGENCY TELEPHONE NUMBER
NUCLEAR ASSOCIATES	(201) 785-0333
ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE)	TELEPHONE NUMBER FOR INFORMATION
100 VOICE ROAD	(516) 741-2841
CARLE PLACE, NY 11514	DATE PREPARED
	11/16/89
	SIGNATURE OF PREPARER (OPTIONAL)

## SECTION II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S))	OSHA PEL	ACHIH TLV	OTHER LIMITS	% (OP-TIONAL)
ISOBUTANE/PROPANE (80/20)	N/A	N/A	----	5% W/W
POTASSIUM PYROPHOSPHATE	N/A	N/A	----	0.5% W/W
DOWANOL EB	50PPM	25PPM	----	7% W/W
PHOSPHORIC ACID	1MG/M3	1MG/M3	----	0.5% W/W
VERSENE 100	N/A	N/A	----	----

## SECTION III -PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT:	0 F	SPECIFIC GRAVITY(H20=1)	1.025
VAPOR PRESSURE (MM HG)	45 PSIG	MELTING POINT	N/A
VAPOR DENSITY (AIR=1)	>1.0	EVAPORATION RATE (BUTYL ACETATE = 1)	>1
SOLUBILITY IN WATER:	COMPLETE		
APPEARANCE AND ODOR:	LIQUID SPRAY		

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED)	-127 F	FLAMMABLE LIMITS	LEL	UEL
		IN AIR	1.9	8.6
EXTINGUISHING MEDIA:	DRY CHEMICALS, CO2 OR FOAM			

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SPECIAL FIRE FIGHTING PROCEDURES:  
 CARE TO BE TAKEN WITH MISSLE EFFECT WHEN BURNING CONTAINERS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:  
 CONTENTS UNDER PRESSURE. DO NOT HEAT OVER 120 F  
 DO NOT PUNCTURE OR INCINERATE.

## SECTION V - REACTIVITY DATA

STABILITY: UNSTABLE CONDITIONS TO AVOID: HIGH TEMPERATURE

INCOMPATIBILITY (MATERIALS TO AVOID):

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: NONE KNOWN

SECTION VI - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: INHALATION? NONE KNOWN SKIN? NON-TOXIC INGESTION?

HEALTH HAZARDS (ACUTE AND CHRONIC)

AVOID SPRAYING EYES  
HARMFUL IF SWALLOWED

CARCINOGENICITY: NTP? NONE KNOWN IARC MONOGRAPHS? OSHA REGULATED?

SIGNS AND SYMPTOMS OF EXPOSURE:

ORAL- NAUSEA AND VOMITING  
EYE- LOCAL IRRITATION, DERMAL-NONE TO MILD IRRITATION.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

NONE KNOWN

EMERGENCY AND FIRST AID PROCEDURES:

INGESTION- INDUCE VOMITING UNTIL VOMITUS CLEARS, CALL PHYSICIAN;  
EYES- FLUSH WITH COPIOUS AMOUNTS OF WATER; REPEAT SAME PROCEDURE FOR DERMAL.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

WASH WITH WATER IF SPILLED.  
HEAVY FLAMMABLE VAPOR MAY COLLECT IN LOW PLACES IF CAN EXPLODES.

WASTE DIPOSAL METHOD

THROUGH CERTIFIED HAZARDOUS WASTE DISPOSAL CHANNELS

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

DO NOT STORE ABOVE 120 F.

OTHER PRECAUTIONS:

AVOID SPRAYING IN EYES, MOUTH, ON WOUNDS, SORES OR ABRADED AREAS.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION(SPECIFY TYPE):

NONE NEEDED

VENTILATION: LOCAL EXHAUST: YES SPECIAL: NONE  
MECHANICAL(GENERAL) ONLY IN LOW AREAS OTHER: NONE

PROTECTIVE GLOVES:

RUBBER OR PE

EYE PROTECTION:

GOGGLES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

NONE NEEDED

WORK/HYGIENIC PRACTICES:

IN ACCORDANCE WITH GOOD MANUFACTURING PROCEDURES.

LAST PAGE

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IDENTITY (AS USED ON LABEL AND LIST)  
 RADCON HAND CLEANER (CCL)

## SECTION I

MANUFACTURER'S NAME	EMERGENCY TELEPHONE NUMBER
NUCLEAR ASSOCIATES	(201) 741-6141
ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE)	TELEPHONE NUMBER FOR INFORMATION
100 VOICE ROAD	(516) 741-2841
CARLE PLACE, NY 11514	DATE PREPARED
	3/14/90
	SIGNATURE OF PREPARER (OPTIONAL)

## SECTION II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S))	OSHA PEL	ACHIH TLV	OTHER LIMITS % (OP-RECOMMENDED TIONAL)
ODORLESS KEROSENE CAS # 8008-20-6	N/A	N/A	0.1% W/W
BUTANE/PROPANE CAS# 106-97-8 CAS#74-98-6	N/A	N/A	5% W/W

## SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT:	0 F	SPECIFIC GRAVITY (H2O=1)	1.0
VAPOR PRESSURE (MM HG) @ 70 F	45 PSIG	MELTING POINT	N/A
VAPOR DENSITY (AIR=1)	>1.0	EVAPORATION RATE (BUTYL ACETATE = 1)	>1

SOLUBILITY IN WATER: COMPLETE

APPEARANCE AND ODOR: FOAM SPRAY

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED)	ISOBUTANE/ PROPANE	FLAMMABLE LIMITS IN AIR	LEL 1.9	UEL 8.6
EXTINGUISHING MEDIA:	DRY CHEMICALS, CO2 OR FOAM			

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SPECIAL FIRE FIGHTING PROCEDURES:  
 CARE TO BE TAKEN WITH MISSILE EFFECT WHEN BURNING AEROSOL CONTAINERS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:  
 CONTENTS UNDER PRESSURE. DO NOT HEAT OVER 120 F  
 DO NOT PUNCTURE OR INCINERATE.

## SECTION V - REACTIVITY DATA

STABILITY: UNSTABLE CONDITIONS TO AVOID: HIGH TEMPERATURE

INCOMPATIBILITY (MATERIALS TO AVOID):

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: NONE KNOWN

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID:

SECTION VI - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: INHALATION? N/A SKIN? NONE INGESTION? NONE KNOWN

HEALTH HAZARDS (ACUTE AND CHRONIC)

CARCINOGENICITY: NTP? IARC MONOGRAPHS? OSHA REGULATED?  
NONE KNOWN

SIGNS AND SYMPTOMS OF EXPOSURE:  
NONE KNOWN

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:  
NONE KNOWN

EMERGENCY AND FIRST AID PROCEDURES:

EYES- FLUSH WITH COPIOUS AMOUNTS OF WATER.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  
WASH WITH WATER.  
HEAVY FLAMMABLE VAPOR MAY COLLECT IN LOW PLACES IF CANS EXPLODE.

WASTE DISPOSAL METHOD  
THROUGH CERTIFIED HAZARDOUS WASTE DISPOSAL CHANNELS

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:  
DO NOT STORE ABOVE 120 F.

OTHER PRECAUTIONS:  
AVOID SPRAYING IN EYES, MOUTH, ON WOUNDS, SORES OR ABRADED AREAS.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE):  
NONE NEEDED

VENTILATION: LOCAL EXHAUST: YES SPECIAL: NONE  
MECHANICAL (GENERAL) ONLY IN LOW AREAS OTHER: NONE

PROTECTIVE GLOVES: NONE EYE PROTECTION:  
GOGGLES/GLASSES SUGGESTED

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:  
NONE NEEDED

WORK/HYGIENIC PRACTICES:  
IN ACCORDANCE WITH GOOD MANUFACTURING PROCEDURES.

LAST PAGE

