

# MATERIAL SAFETY DATA SHEET

ION 1. CHEMICAL IDENTIF:	ICATION	
CATALOG #: 34	12130	
NAME: Cy	yclohexanol	
SYNONYMS: Cyclohexyl alcohol		
24 HOUR EMERGENCY TELEPHONE:		
	Outside USA/Canada: +1 801-629-0667	
TO REQUEST AN MSDS:	+1 888-535-2444	
CUSTOMER +1 888-535-2444 SERVICE:		
ION 2. HAZARDS IDENTIFIC	ATION	
EMERGENCY OVERVIEW OSHA HAZARDS	Combustible Liquid, Target Organ Effect, Harmful by ingestion., Harmful by skin absorption., Irritant	
Other hazards which do not	May form explosive peroxides.	
result in classification		
GHS CLASSIFICATION	FLAMMABLE LIQUIDS (CATEGORY 4) ACUTE TOXICITY, ORAL (CATEGORY 4) ACUTE TOXICITY, INHALATION (CATEGORY 4) ACUTE TOXICITY, DERMAL (CATEGORY 4) SKIN IRRITATION (CATEGORY 2) EYE IRRITATION (CATEGORY 2A) SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (CATEGORY 3) Acute aquatic toxicity (Category 3)	
SIGNAL WORD	Warning	
HAZARD STATEMENT(S)		
<b>HAZARD STATEMENT(S)</b> H227 H302 + H312	Combustible liquid. Harmful if swallowed or in contact with skin	
HAZARD STATEMENT(S) H227	Combustible liquid.	
HAZARD STATEMENT(S) H227 H302 + H312 H315 H319 H332	Combustible liquid. Harmful if swallowed or in contact with skin Causes skin irritation. Causes serious eye irritation. Harmful if inhaled.	
HAZARD STATEMENT(S) H227 H302 + H312 H315 H319	Combustible liquid. Harmful if swallowed or in contact with skin Causes skin irritation. Causes serious eye irritation.	
HAZARD STATEMENT(S) H227 H302 + H312 H315 H319 H332 H335	Combustible liquid. Harmful if swallowed or in contact with skin Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation.	
HAZARD STATEMENT(S) H227 H302 + H312 H315 H319 H332 H335 H402	Combustible liquid. Harmful if swallowed or in contact with skin Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation.	
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MF:	C <sub>6</sub> H <sub>12</sub> O	
MW:	100.16	
CAS-NO.	108-93-0	
PURITY:	≥ 97%	
SECTION 4. FIRST-AID MEASURE	S	
GENERAL ADVICE	CONSULT A PHYSICIAN. SHOW THIS SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE.MOVE OUT OF DANGEROUS AREA	
IF INHALED	IF BREATHED IN, MOVE PERSON INTO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. CONSULT A PHYSICIAN.	
IN CASE OF SKIN CONTACT	WASH OFF WITH SOAP AND PLENTY OF WATER. CONSULT A PHYSICIAN.	
IN CASE OF EYE CONTACT	RINSE THOROUGHLY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND CONSULT A PHYSICIAN.	
IF SWALLOWED	NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER. CONSULT A PHYSICIAN.	
SECTION 5. FIRE AND EXPLOSIO	N DATA	
CONDITIONS OF FLAMMABILITY	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.	
SUITABLE EXTINGUISHING MEDIA	USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY CHEMICAL OR CARBON DIOXIDE.	
SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS	WEAR SELF CONTAINED BREATHING APPARATUS FOR FIRE FIGHTING IF NECESSARY.	
HAZARDOUS COMBUSTION PRODUCTS	HAZARDOUS DECOMPOSITION PRODUCTS FORMED UNDER FIRE CONDITIONS CARBON OXIDES	
FURTHER INFORMATION	USE WATER SPRAY TO COOL UNOPENED CONTAINERS.	
SECTION 6. ACCIDENTAL RELEAS	e measures	
PERSONAL PRECAUTIONS	USE PERSONAL PROTECTIVE EQUIPMENT. AVOID BREATHING VAPOURS, MIST OR GAS. ENSURE ADEQUATE VENTILATION. REMOVE ALL SOURCES OF IGNITION. EVACUATE PERSONNEL TO SAFE AREAS. BEWARE OF VAPOURS ACCUMULATING TO FORM EXPLOSIVE CONCENTRATIONS. VAPOURS CAN ACCUMULATE IN LOW AREAS.	
ENVIRONMENTAL PRECAUTIONS	PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT LET PRODUCT ENTER DRAINS. DISCHARGE INTO THE ENVIRONMENT MUST BE AVOIDED.	
METHODS FOR CLEANING UP	CONTAIN SPILLAGE, AND THEN COLLECT WITH AN ELECTRICALLY PROTECTED VACUUM CLEANER OR BY WET-BRUSHING AND PLACE IN CONTAINER FOR DISPOSAL ACCORDING TO LOCAL REGULATIONS (SEE SECTION 13). KEEP IN SUITABLE, CLOSED CONTAINERS FOR DISPOSAL.	
SECTION 7. HANDLING AND STOR	AGE	
PRECAUTIONS FOR SAFE HANDLING	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.	
CONDITIONS FOR SAFE STORAGE	Keep container tightly closed in a dry and well-ventilated place.	

SECTION 8.

EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

COMPONENTS	CAS-NO.	VALUE	CONTROL PARAMETERS	BASIS
CYCLOHEXANOL	108-93-0	TWA	50 PPM	USA. ACGIH THRESHOLD LIMIT VALUES (TLV)
REMARKS CE	NTRAL NERV	VOUS SYST	TEM IMPAIRMENT EYE IRR	ITATION DANGER OF CUTANEOUS ABSORPTION
		TWA	50 PPM 200 MG/M3	USA. OSHA - TABLE Z-1 LIMITS FOR AIR CONTAMINANTS - 1910.1000
SK	IN NOTATIO	N		
		TWA	50 PPM 200 MG/M3	USA. OCCUPATIONAL EXPOSURE LIMITS (OSHA) - TABLE Z-1 LIMITS FOR AIR CONTAMINANTS
TH	E VALUE IN	MG/M3 IS A	APPROXIMATE.	
		TWA	50 PPM 200 MG/M3	USA. NIOSH RECOMMENDED EXPOSURE LIMITS
PO	TENTIAL FO	R DERMAL	ABSORPTION	

# PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION	WHERE RISK ASSESSMENT SHOWS AIR-PURIFYING RESPIRATORS ARE APPROPRIATE USE A FULL-FACE PARTICLE RESPIRATOR TYPE N100 US) OR TYPE P3 (EN 143) RESPIRATOR CARTRIDGES AS A BACKUP TO ENGINEERIN CONTROLS. IF THE RESPIRATOR IS THE SOLE MEANS OF PROTECTION, USE A FULL FACE SUPPLIED AIR RESPIRATOR. USE RESPIRATORS AND COMPONENTS TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR CEN (EU).
HAND PROTECTION	HANDLE WITH GLOVES. GLOVES MUST BE INSPECTED PRIOR TO USE. USE PROPER GLOVE REMOVAL TECHNIQUE (WITHOUT TOUCHING GLOVE"S OUTER SURFACE) TO AVOID SKIN CONTACT WITH THIS PRODUCT. DISPOSE OF CONTAMINATED GLOVES AFTER USE IN ACCORDANCE WITH APPLICABLE LAWS AND GOOD LABORATORY PRACTICES. WASH AND DRY HANDS.
EYE PROTECTION	FACE SHIELD AND SAFETY GLASSES USE EQUIPMENT FOR EYE PROTECTION TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR EN 166(EU).
SKIN AND BODY PROTECTION	COMPLETE SUIT PROTECTING AGAINST CHEMICALS, THE TYPE OF PROTECTIVE EQUIPMENT MUST BE SELECTED ACCORDING TO THE CONCENTRATION AND AMOUNT OF THE DANGEROUS SUBSTANCE AT THE SPECIFIC WORKPLACE.
HYGIENE MEASURES	HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE. WASH HANDS BEFORE BREAKS AND AT THE END OF WORKDAY.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE:	Colorless liquid
PH	6.5 AT 40 G/L AT 20 C
BOILING POINT:	160-161°C
MELTING POINT:	20-22°C
FLASH POINT	68 C (154 F) - closed cup
IGNITION TEMPERATURE	300 C (572 F)
AUTOIGNITION TEMPERATURE	NO DATA AVAILABLE
LOWER EXPLOSION LIMIT	1.25 %(V)
UPPER EXPLOSION LIMIT	12.25 %(V)
DENSITY	0.948 G/CM3 AT 25 C (77 F)
VAPOR PRESSURE	1.31 HPA (0.98 MMHG) AT 25 C (77 F)
WATER SOLUBILITY	NO DATA AVAILABLE
PARTITION COEFFICIENT: N- OCTANOL/WATER	log Pow: 1.25 at 25 C (77 F)
ODOR	NO DATA AVAILABLE
ODOR THRESHOLD	NO DATA AVAILABLE
RELATIVE VAPOR DENSITY	4.01
EVAPORATION RATE	NO DATA AVAILABLE

STRONG OXIDIZING AGENTS

SECTION 10. STABILITY AND REACTIVITY

MATERIALS TO AVOID

	HAZARDOUS DECOMPOSITION PRODUCTS		HAZARDOUS DECOMPOSITION PRODUCTS FORMED UNDER FIRE CONDITIONS CARBON OXIDES OTHER DECOMPOSITION PRODUCTS - NO DATA AVAILABLE	
	CONDITIONS TO	AVOID	HEAT, FLAMES AND SPARKS.	
	POSSIBILITY OF HAZARDOUS REACTIONS		NO DATA AVAILABLE	
SECTIC	DN 11.	TOXICOLOGICAL	INFORMATION	
	ACUTE TOXICITY	ć	ORAL LD50 LD50 ORAL - RAT - 1,400 MG/KG REMARKS: BEHAVIORAL: SOMNOLENCE (GENERAL DEPRESSED ACTIVITY). LUNGS, THORAX, OR RESPIRATION: OTHER CHANGES. NUTRITIONAL AND GROSS METABOLIC: WEIGHT LOSS OR DECREASED WEIGHT GAIN.	
			INHALATION LC50 NO DATA AVAILABLE	
			DERMAL LD50 LD50 DERMAL - RABBIT - > 1,000 MG/KG	
			OTHER INFORMATION ON ACUTE TOXICITY NO DATA AVAILABLE	
	SKIN CORROSION	N/IRRITATION	SKIN - RABBIT - SKIN IRRITATION	
	SERIOUS EYE DA IRRITATION	MAGE/EYE	EYES - RABBIT - MODERATE EYE IRRITATION	
	RESPIRATORY OI SENSITIZATION	R SKIN	NO DATA AVAILABLE	
	GERM CELL MUTAGENICITY		GENOTOXICITY IN VITRO - HUMAN LEUKOCYTE CYTOGENETIC ANALYSIS GENOTOXICITY IN VITRO - MAMMAL LYMPHOCYTE DNA DAMAGE	
	CARCINOGENICITY IARC:		NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED	
	ACGIH:		HUMAN CARCINOGEN BY IARC. NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL	
	NTP:		CARCINOGEN BY ACGIH. NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A KNOWN OR ANTICIPATED	
	OSHA:		CARCINOGEN BY NTP. NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY OSHA.	
	REPRODUCTIVE TOXICITY		REPRODUCTIVE TOXICITY - RAT SUBCUTANEOUS PATERNAL EFFECTS: SPERMATOGENESIS (INCLUDING GENETIC MATERIAL, SPERM MORPHOLOGY,MOTILITY, AND COUNT). PATERNAL EFFECTS: TESTES, EPIDIDYMIS, SPERM DUCT. PATERNAL EFFECTS: PROSTATE, SEMINAL VESSICLE, COWPER'S GLAND, ACCESSORY GLANDS. REPRODUCTIVE TOXICITY - GERBIL - SUBCUTANEOUS PATERNAL EFFECTS: SPERMATOGENESIS (INCLUDING GENETIC MATERIAL, SPERM MORPHOLOGY, MOTILITY, AND COUNT). PATERNAL EFFECTS: TESTES, EPIDIDYMIS, SPERM DUCT. PATERNAL EFFECTS: PROSTATE, SEMINAL VESSICLE, COWPER''S GLAND, ACCESSORY GLANDS.	
	TERATOGENICIT	Y	NO DATA AVAILABLE	
	SPECIFIC TARGE TOXICITY - SING (GLOBALLY HAR SYSTEM)	LE EXPOSURE	MAY CAUSE RESPIRATORY IRRITATION.	
	SPECIFIC TARGE TOXICITY - REPE (GLOBALLY HAR SYSTEM)	ATED EXPOSURE	NO DATA AVAILABLE	
	ASPIRATION HAZ	ZARD	NO DATA AVAILABLE	
	SIGNS AND SYMI EXPOSURE	PTOMS OF	PROLONGED OR REPEATED EXPOSURE CAN CAUSE:, HEADACHE, NAUSEA, TREMORS, INCOORDINATION., BURNING SENSATION, COUGH, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, VOMITING, TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.	
	SYNERGISTIC EF	FECTS	NO DATA AVAILABLE	
	ADDITIONAL INF	ORMATION	RTECS: GV7875000	

TOXICITY	TOXICITY TO FISH LC50 - PIMEPHALES PROMELAS (FATHEAD MINNOW) - 70 MG/L - 96 H
	TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES EC50 - DAPHNIA MAGNA (WATER FLEA) - > 500 MG/L - 48 H
	TOXICITY TO ALGAE EC50 - DESMODESMUS SUBSPICATUS (GREEN ALGAE) 29.2 MG/L - 72 H
PERSISTENCE AND DEGRADABILITY	NO DATA AVAILABLE
BIOACCUMULATIVE POTENTIAL	NO DATA AVAILABLE
MOBILITY IN SOIL	NO DATA AVAILABLE
PBT AND VPVB ASSESSMENT	NO DATA AVAILABLE
OTHER ADVERSE EFFECTS	AN ENVIRONMENTAL HAZARD CANNOT BE EXCLUDED IN THE EVENT OF UNPROFESSIONAL HANDLING OR DISPOSAL. HARMFUL TO AQUATIC LIFE. NO DATA AVAILABLE

SECTION 13. DISPOSAL CONSIDERATIONS

#### PRODUCT

THIS COMBUSTIBLE MATERIAL MAY BE BURNED IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. OFFER SURPLUS AND NON-RECYCLABLE SOLUTIONS TO A LICENSED DISPOSAL COMPANY. CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL.

## CONTAMINATED PACKAGING

DISPOSE OF AS UNUSED PRODUCT.

SECTION 14. TRANSPORT INFORMATION

DOT REGULATIONS:	
PROPER SHIPPING NAME:	COMBUSTIBLE LIQUID, N.O.S. (CYCLOHEXANOL)
UN#:	NA-NUMBER: 1993
CLASS:	CBL
PACKING GROUP:	III
MARINE POLLUTANT:	NO
POISON INHALATION HAZARD:	NO
IMDG:	NOT DANGEROUS GOODS
IATA REGULATIONS:	NOT DANGEROUS GOODS

SECTION 15. REGULATORY INFORMATION

## **OSHA HAZARDS**

CYCLOHEXANOL

COMBUSTIBLE LIQUID, TARGET ORGAN EFFECT, HARMFUL BY INGESTION., HARMFUL BY SKIN ABSORPTION., IRRITANT

#### SARA 302 COMPONENTS

SARA 302: NO CHEMICALS IN THIS MATERIAL ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 302.

SARA 313 COMPONENTS		
THE FOLLOWING COMPON	ENTS ARE SUBJECT TO REPORTIN	G LEVELS ESTABLISHED BY SARA TITLE III,
SECTION 313:		
	CAS-NO.	REVISION DATE

108-93-0

REVISION DATE 04-24-1993

SARA 311/312 HAZARDS
FIRE HAZARD, ACUTE HEALTH HAZARD, CHRONIC HEALTH HAZARD

MASSACHUSETTS RIGHT T	O KNOW COMPONENTS	
	CAS-NO.	REVISION DATE
CYCLOHEXANOL	108-93-0	04-24-1993
PENNSYLVANIA RIGHT TO	KNOW COMPONENTS	
	CAS-NO.	REVISION DATE
CYCLOHEXANOL	108-93-0	04-24-1993
NEW JERSEY RIGHT TO KN	OW COMPONENTS	
	CAS-NO.	REVISION DATE
CYCLOHEXANOL	108-93-0	04-24-1993

CALIFORNIA PROP. 65 COMPONENTS

THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS KNOWN TO STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR ANY OTHER REPRODUCTIVE HARM.

OTHER INFORMATION

MSDS LEGEND:	
MW:	MOLECULAR WEIGHT
MF:	MOLECULAR FORMULA
VOC:	VOLATILE ORGANIC COMPOUNDS
ACGIH:	AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS
CAS:	CHEMICAL ABSTRACTS SERIVE REGISTRY NUMBER
OSHA:	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PEL:	PERMISSIBLE EXPOSURE LIMIT (OSHA)
TLV:	THRESHOLD LIMIT VALUE (ACGIH)

## IMPORTANT:

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall AFG Bioscience LLC be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if AFG Bioscience LLC has been advised of the possibility of such damages.