## MSDS: **B4795**

## ITEM: 4CFH3 - Pressure Gauge Filled 2 1/2 In 60 ORDER: 0062115123 LP NUMBER: U183429159-A

**MATERIAL SAFETY DATA SHEET (MSDS)** 

This MSDS should be attached or kept with the respective product with which it is associated.

MATERIAL BAFETY DATA SHEET - 84795	MELTING POINT (DEG. C): 18
Associated Grainger Items 4CFE9, 4CFE4, 4CFE5, 4CFE6, 4CFE7, 4CFE8, 4CFE9, 4CFF1	VAPOR PRESSURE (MM OF Hg AT 20 DEG. C): 0.0023
4CFF2, 4CFF3, 4CFF4, 4CFF5, 4CFF6, 4CFF7, 4CFF8, 4CFF9, 4CFG1, 4CFG2, 4CFG3, 4CFG4, 4CFG5, 4CFG6, 4CFG7, 4CFG8, 4CFG9, 4CFH1, 4CFH2, 4CFH3, 4CFH4, 4CFH5	PERCENTAGE VOLATILES: NOT MORE THAN 0.5%
4CFH6, 4CFH7, 4CFH8, 4CFH9, 4CFU1, 4CFU2, 4CFU3, 4CFU4, 4CFU5, 4CFU6, 4CFU7 4CFU8, 4CFU9, 4CFC1, 4CFC2, 4CFC3, 4CFC4, 4CFC5, 4CFC7, 4CFC8, 4CFC9, 4CF	EVAPORATION RATE: LESS THAN 1 (ETHER = 1)
4CFL1, 4EFRG, 4FRX7, 4FRX8, 4FRX9, 4FRX1, 4FRX2, 4FRX3, 4FRX4, 4FRX5, 4FRX6, 4FRX7, 4FRX8, 4FRX9, 4FRX1, 4FRX2, 4FRX3, 4FRX8, 4FRX8, 4FRX6, 4FRX6, 4FRX6, 4FRX8, 4F	VAPOR DENSITY: 3.1 (AIR = 1)
4FLC2, 4FLC3, 4FLC4, 4FLC5, 4FLC6, 4FLC7, 4FLC8, 4FLC9, 4FLD1, 4FLD2, 4FLD3	SPECIFIC GRAVITY: 1.2606 - 1.2612 AT 25 DEG. C
4FLE6, 4FLE7, 4FLE8, 4FLE9, 4FLF1, 4FLF2, 4FLF3, 4FLF4, 4FLF5, 4FLF6, 4FLF7	FLASH POINT: 160 DEG. C
4FIH1, 4FIH2, 4FIH3, 4FIH4, 4FIH5, 4FIH6, 4FIH7, 4FIH8, 4FIH9, 4FIJ1, 4FIJ2	AUTOIGNITION TEMPERATURE: 392 DBG. C
4FLK5, 4FLK6, 4FLK7, 4FLK8, 4FLK9, 4FLL1, 4FLL2, 4FLL3, 4FLL4, 4FLL5, 4FLL6	FLAMMABLE LIMIT (%): NOT KNOWN
4FIL7, 4FIL8, 4FIL9, 4FIN1, 4FIN2, 4FIN3, 4FIN4, 4FIN5, 4FIN6, 4FIN7, 4FIN8 4FIN9, 4FILP1, 4FILP2, 4FILP3, 4FILP4, 4FILP5, 4FILP6	OTHER PROPERTIES IF APPLICABLE: NOT APPLICABLE
IOI GROUP OLEOCHEMICALS	TV HAZARDS IDENTIFICATION
ACIDCHEM INTERNATIONAL SDN. BHD. 2411, LORONG PERUSAHAAN SATU	MOST IMPORTANT HAZARD: REACTS VIOLENTLY WITH STRONG OXIDANTS
PRAI INDUSTRIAL COMPLEX 13600 PRAI, PENANG, MALAYSIA.	PROJECT INCHES REPORT VIOLETIA WITH DESCRIPTION
TEL: +604-390 0906	V FIRST AID MEASURES
FAX: +604-390 7252; 399 6462	INGESTION: INDUCE VOMITING IF LARGE AMOUNTS WAS INGESTED
EMAIL: SALES@IOIOLEO.COM	EYE CONTACT: IRRIGATE WITH WATER IMMEDIATELY FOR AT LEAST 5 MINUTES
PAN CENTURY OLEOCHEMICALS SDN. BHD.	SKIN CONTACT: WASH OFF WITH FLOWING WATER OR IN SHOWER
LOT 231, JALAN PEKELILING 81700 PASIR GUDANG, JOHOR, MALAYSIA.	INHALATION: NO ADVERSE EFFECTS EXPECTED
TEL: +607-251 2298; 251 7833	NOTES TO PHYSICIAN: THERE IS NO ANTIDOTE; USE SUPPORTIVE CARE
FAX: +607-251 2634	VI FIRE FIGHTING MEASURES
EMAIL: SALES@IOIOLEO.COM	EXTINGUISHING MEDIA:
MATERIAL SAFETY DATA SHEET	WATER, FOG, ALCOHOL RESISTANT FOAM, CARBON DIOXIDE, DRY CHEMICAL
I CHROCAL PRODUCT AND COMPANY IDENTIFICATION	FIRE FIGHTING INSTRUCTION: WEAR A POSITIVE PRESSURE SELF-CONTAINED EREATHING APPARATUS. CAUTION - ACROLEIN MAY BE RELEASED BY COMBUSTION
1.1 PRODUCT DETAILS:	SPECIAL HAZARDS: AVOID FROM STRONG OXIDISING AGENTS
PRODUCT NAME: GLYCERINE	
TRADE NAME: GLYCERINE 99.5% AND GLYCERINE 99.7% (USP/BP)	VII ACCIDISTAL RELEASE MEASURE
CHEMICAL NAME: 1,2,3-PROPANETRIOL	LEAK/SPILL: FOR SWALL SPILLAGE, COVER WITH ABSCREENT MATERIAL, SOAK UP AND SWEEP INTO A
CHEMICAL FORMULA: C3H5 (OH) 3	DRUM. FOR LARGE SPILLAGE, DIKE AROUND THE SPILL AND PUMP INTO SUITABLE CONTAINERS
MOLAR MASS: 92.11	TITT WANT DELAND GEORGE
CHEMICAL FAMILY: POLYHYDRIC ALCOHOL	LIAMOT THE PERSON COMMENTARIES OF COMMENTS AND STORAGE
MANUFACTURER'S CODE: NOT APPLICABLE	HANDLING: KEEP CONTAINERS TIGHTLY SEALED. THIS MATERIAL ABSORBS WATER STORAGE: KEEP IN COOL DRY PLACE
USE: PHARMACEUTICAL, FOOD, COSMETIC AND INDUSTRIAL APPLICATIONS	DIOWNES: RESP IN COOL DRI FIRME
1.2 COMPANY IDENTIFICATION:	IX EXPOSURE CONTROL AND PERSONAL PROTECTION —
MANUFACTURER'S NAME AND ADDRESS: ACIDCHEM INTERNATIONAL	A. EXPOSURE LIMIT: NOT KNOWN
SIN BHD 2411 LORONG PERUSAHAAN SATU	B. ENGINEERING MEASURES: NO SPECIAL ENGINEERING REQUIREMENTS
PRAI INDUSTRIAL COMPLEX, PENANG	C. PERSONAL PROTECTION: NO SPECIAL REQUIREMENTS
IMPORTER'S/DISTRIBUTOR'S NAME AND ADDRESS:	X STABILITY AND REACTIVITY
TELEPHONE NUMBER: +604 3907818	CONDITIONS TO AVOID: AVOID CONTACT WITH STRONG CXIDIZING AGENTS
EMERGENCY TELEPHONE NUMBER: +604 3907818	INCOMPATIBLES: STRONG OXIDIZING AGENTS
1.3 CONTACT POINT:	DECOMPOSITION PRODUCTS: CARBON, HYDROGEN, OXYGEN AND/OR ACROLEIN
DESIGNATION: 1) SAFETY AND HEALTH MANAGER/OFFICER 11) QUALITY CONTROL MANAGER/CHEMIST	HAZARDOUS POLYMERIZATION: NONE
TEL NO: +604 3907818	XI TOXICOLOGICAL INFORMATION
	TOXICITY DATA:
II COMPOSITION/INFORMATION ON INGREDIENT	LD50 (CRAL, RAT): 12600 MG/KG LC50 (RAT): >570 MM/M3/1H
CHEMICAL CAS NO EINECS NO PROPORTION (*) EXPOSURE TOXICITY DATA NAME LIMIT	CARCINGENICITY: NONE
GLYCERINE 56-81-5 200-289-5 99.5% MIN N/A LD50 (CRAL, RAT)	REPRODUCTIVE EFFECT: NO HARMFUL EFFECTS EXPECTED
99.7% MIN =12600 MG/KG LC50 (RAT)	EFFECTS OF OVEREXPOSURE: NO HARMFUL EFFECTS EXPECTED
=570 MG/M3 /1H	CHRONIC EFFECIS:
	EYES: SLIGHT IRRITATION
III PHYSICAL AND CHEMICAL PROPERTIES	TARGET ORGANS: INCRESTION: HIGH DOSES - ONS EFFECTS, INCREASED SUGAR AND FAT LEVELS
APPEARANCE: CLEAR, COLORLESS, CDORLESS, SYRUPY LIQUID	MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: EYES
ODOR: ODORLESS	
SOLUBILITY: SOLUBLE IN WATER	XII ECOLOGICAL INFOSMATION
BOILING POINT (DEG. C): 290	MOBILITY &: NOT KNOWN

BIOACCUMULATION: NOT KNOWN
BIODEGRADABILITY: BIODEGRADABLE
AQUATIC TOXICITY: LC50: >5000 MG/L
XIII DISPOSAL INFORMATION
DISPOSAL METHOD IN ACCORDANCE WITH ALL APPLICABLE NATIONAL ENVIRONMENT LAWS AND REGULATIONS
XIV TRANSPORT IMPORMATION
NOT A HARZARDOUS MATERIAL ACCORDING TO RI/ADR. GGVS/GGVE, ADNR, IMDG, ICAO-TI/IATA-DGR
XV REGULATORY INFORMATION
GLYCERINE 99.5% & 99.7% (USP/BP) IS CATEGORISED UNDER NON-HAZARDOUS CHEMICALS
XVI OTHER INFORMATION —
THIS MATERIAL AND SAFETY DATA SHEET DOES NOT CONSTITUTE ANY WARRANTY OR GURRANTEE AS TO THE QUALITY, PROPERTIES, CONDITION OR OTHERWISE OF THE PRODUCT. IT HAS BEEN PREPARED FROM THE BEST KNOWLEDGE AVAILABLE TO US AND WE SHALL NOT BE LIABLE FOR ANY INSUFFICIENCY OR INACCURACY IN SUCH