

SDS B9243

ITEM: 4FLH6 - Pressure Gauge, Liquid Filled, 2 In

DELIVERY: 6414647599

HU NUMBER: U810968051

SAFETY DATA SHEET (SDS)

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

MSDS - B9243

Associated Items  
4FLH6

IOI GROUP  
OLEOCHEMICALS

**MATERIAL SAFETY DATA SHEET**

GROUP OF CHEMICALS: GLYCERINE

COMMERCIAL NAME: REFINED GLYCERINE

COMMON NAME/OTHER NAME: GLYCERINE 99%/1,2,3-PROPANETRIOL

MSDS NO: 016

DATE ISSUE: 24 JULY 2009



-----SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF SUPPLIER-----

PRODUCT NAME: GLYCERINE 99.5%, GLYCERINE 99.7% (USP/BP)

TRADE NAME: GLYCERINE 99.5%, GLYCERINE 99.7% (USP/BP)

RECOMMENDED USES:  
RAW MATERIAL FOR MANUFACTURING OLEOCHEMICAL DERIVATIVES FOR PHARMACEUTICAL, FOOD, COSMETIC AND INDUSTRIAL USE.

SUPPLIER NAME:  
ACIDCHEM INTERNATIONAL SDN BHD.  
2411 LORONG PERUSAHAAN SATU  
PRAI INDUSTRIAL COMPLEX.  
13600. PRAI.  
PENANG, MALAYSIA

PAN CENTURY OLEOCHEMICALS SDN BHD  
LOT 231, JALAN PEKELILING  
PASIR GUDANG INDUSTRIAL ESTATE  
81700 PASIR GUDANG.  
JOHOR, MALAYSIA

EMERGENCY CONTACT:  
ACIDCHEM INTERNATIONAL SDN BHD: +604 3907818  
PAN CENTURY OLEOCHEMICALS SDN BHD: +607-2512298

CONTACT PERSON:  
1) SAFETY AND HEALTH MANAGER / OFFICER  
2) QUALITY CONTROL MANAGER / CHEMIST

-----SECTION 2. HAZARDS IDENTIFICATION-----

PRODUCT IS NON-HAZARDOUS

-----SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS-----

GENERAL CHEMICAL DESCRIPTION:  
GLYCERINE, 1,2,3-PROPANETRIOL, FORMULA C3 H8 O3

CAS-NUMBER: 56-81-5

EINECS-NUMBER: 200-289-5

-----SECTION 4. FIRST-AID MEASURES-----

WHEN INHALED:  
REMOVE TO FRESH AIR. IF SUFFOCATION IS SERIOUS TAKE TO A DOCTOR

WHEN IN CONTACT WITH SKIN:  
USE GLOVES  
ABSORB WATER FROM SKIN/BODY IF CONTACTED FOR TOO LONG  
REMOVE CONTAMINATED CLOTHING, WASH SKIN WITH WATER AND SOAP

WHEN IN CONTACT WITH EYES:  
USE FACE SHIELD  
FLUSH WITH WATER, TAKE TO A DOCTOR IF NECESSARY

WHEN INGESTED:  
DIARRHOEA, HEADACHE, NAUSEA  
RINSE MOUTH, DRINK PLENTY OF WATER, SEE PHYSICIAN

-----SECTION 5. FIRE-FIGHTING MEASURES-----

SUITABLE FIRE-FIGHTING AGENTS:  
USE DRY POWDER, FOAM, CARBON DIOXIDE FOR EXTINGUISHING

EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS: NONE

SPECIFIC HAZARDS IN THE EVENT OF FIRE:  
COMBUSTIBLE, KEEP AWAY FROM OPEN FLAME, NO SMOKING

PROTECTION OF FIRE-FIGHTERS (USE OF PROTECTIVE EQUIPMENT, ETC.):  
USE SELF-CONTAINED BREATHING EQUIPMENT IF IN CONFINED PLACE

-----SECTION 6. ACCIDENT RELEASE MEASURES-----

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:  
USE GLOVES, FACE SHIELD

ENVIRONMENTAL PRECAUTIONS: DO NOT ALLOW TO FLOW INTO DRAINAGE SYSTEM.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:  
COLLECT LEAKAGE IN SEALABLE CONTAINERS, SOAK UP WITH SAND OR OTHER INERT ABSORBENT AND REMOVE TO SAFE PLACE. FLUSH AWAY REMAINDER WITH WATER.

-----SECTION 7. HANDLING AND STORAGE-----

PRECAUTIONS FOR SAFE HANDLING:  
USE GLOVES AND WEAR GOGGLES WHEN HANDLING.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:  
KEEP IN A COOL AND DRY PLACE, AVOID EXTREME HEAT AND COLD.

AVOID DIRECT FIRE. KEEP SEPARATE FROM OXIDANTS.

STORE IN CLEAN, DRY, PREFERABLY STAINLESS STEEL VESSELS.

IN BULK, STORE AT AMBIENT TEMPERATURE. FOR PUMPING, HEAT UP TO ABOVE 60 DEG C. TEMPERATURE HIGHER THAN NECESSARY DEGRADES QUALITY AT RATE DEPENDENT ON TIME AND TEMPERATURE OF EXPOSURE. EXPOSURE TO ULTRAVIOLET LIGHT, ESPECIALLY SUNLIGHT MUST BE MINIMISED TO PREVENT QUALITY LOSS.

-----SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION-----

CONTROL PARAMETERS: NONE

APPROPRIATE ENGINEERING CONTROLS: NO SPECIAL MEASURES REQUIRED.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT (PPE): IMMEDIATELY REMOVE SOILED OR SOAKED CLOTHING.

HAND PROTECTION: SUITABLE PROTECTIVE GLOVES.

EYE PROTECTION: PROTECTIVE GOGGLES.

BODY PROTECTION: SUITABLE PROTECTIVE CLOTHING.

-----SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES-----

APPEARANCE:  
COLORLESS, HYGROSCOPIC & VISCOUS LIQUID.  
(BECOME VERY VISCOUS AT TEMPERATURE -10 DEG C AND BELOW)

ODOR: SLIGHT MILKY TO ODORLESS

ODOR THRESHOLD: NOT AVAILABLE

pH: NOT AVAILABLE

MELTING POINT / FREEZING POINT: 18 - 22

INITIAL BOILING POINT AND BOILING RANGE: 290 - 295 DEG. C @ 760 MMHg

FLASH POINT: >180 DEG. C

EVAPORATION RATE: NOT APPLICABLE

FLAMMABILITY (SOLID, GAS): NOT APPLICABLE

UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: NOT AVAILABLE

VAPOR PRESSURE: 0.0025 MBAR @ 50 DEG. C

VAPOR DENSITY: 3.2 (RELATIVE, AIR=1)

RELATIVE DENSITY: 1.0 @ 20 DEG. C AT SATURATED MIXTURE VAPOR/AIR (AIR=1)

SOLUBILITY: INFINITE G/100 ML IN WATER @ 20 DEG. C

PARTITION COEFFICIENT:  
n-OCTANOL/WATER: -2.6

AUTO-IGNITION TEMPERATURE: 400 DEG. C (CLEVELAND CLOSED CUP)

DECOMPOSITION TEMPERATURE: NOT AVAILABLE

VISCOSITY: NOT AVAILABLE

DENSITY @ 20 DEG. C: 1.2635 - 1.2651 G/ML

RELATIVE MOLECULAR MASS: 92.1

-----SECTION 10. STABILITY AND REACTIVITY-----

REACTIVITY: VAPOR MIXES READILY WITH AIR.

CHEMICAL STABILITY:  
ABLE TO POLYMERISE ABOVE 149 DEG C. DECOMPOSES WHEN HEATED ABOVE 290 DEG C



POSSIBILITY OF HAZARDOUS REACTIONS: NONE KNOWN

CONDITIONS TO AVOID: NONE KNOWN

INCOMPATIBLE MATERIALS: REACTS VIOLENTLY WITH STRONG OXIDANTS

HAZARDOUS DECOMPOSITION PRODUCTS:  
LOW TOXICITY AND NOT CONSIDERED HAZARDOUS TO HUMAN BEINGS

-----SECTION 11. TOXICOLOGICAL INFORMATION -----

ACUTE TOXICITY:

LD50 (ORAL, RAT): >12600 MG/KG  
LC50 (INHALATION, RAT): >570 MG/M3/1HR

SKIN CORROSION/IRRITATION:

LD50 RABBIT: >10 GM/KG, NOT IRRITATING (DRAIZE TEST)

SERIOUS EYE DAMAGE/IRRITATION: NOT IRRITATING (OECD 405)

RESPIRATORY OR SKIN SENSITIZATION: NO SENSITIZATION REACTIONS.

GERM CELL MUTAGENICITY: NOT MUTAGENIC (AMES TEST)

CARCINOGENICITY: NOT AVAILABLE

REPRODUCTIVE TOXICITY: NOT AVAILABLE

STOST-SINGLE / REPEATED EXPOSURE: NOT AVAILABLE

ASPIRATION HAZARD: NOT AVAILABLE

-----SECTION 12. ECOLOGICAL INFORMATION -----

AQUATIC TOXICITY:

ACUTE FISH TOXICITY:

LC50: >10000 MG PRODUCT/L.  
CARP, LC50: >1000 MG/L (48H)

ACUTE BACTERIA TOXICITY:

EC50: >10000 MG PRODUCT/L.  
DAPHNIA MAGNA, EC50: >1000 MG/L (3H)

PERSISTENCE AND DEGRADABILITY: READILY BIODEGRADABLE, OECD 301

BIOACCUMULATIVE POTENTIAL: LOG P OCTANOL / WATER = -2.6

MOBILITY IN SOIL: NOT AVAILABLE

OTHER ADVERSE EFFECT: NOT AVAILABLE

-----SECTION 13. DISPOSAL CONSIDERATIONS -----

DISPOSAL METHOD:

WASTE INCINERATION WITH THE APPROVAL OF THE RESPONSIBLE LOCAL AUTHORITY.

-----SECTION 14. TRANSPORT INFORMATION -----

UN NUMBER: NONE

UN PROPER SHIPPING NAME: NONE

TRANSPORT HAZARD CLASS:

NOT HAZARDOUS ACCORDING TO RID/ADR, GGVS/GGVE, ADN, IMDG,  
ICAO-TI/IATA-DGR.

PACKING GROUP: NONE

ENVIRONMENTAL HAZARD:

MARINE POLLUTANT (YES/NO): NO

MARPOL ANNEX II: CATEGORY Z

-----SECTION 15. REGULATORY INFORMATION -----

CLASSIFICATION AND LABELLING ACCORDING TO GHS: NONE

CLASSIFICATION AND LABELLING ACCORDING TO EC: NONE

-----SECTION 16. OTHER INFORMATION -----

ALWAYS WORK SAFELY AROUND OPEN HATCHES ON BULK TANKS. THE LOW DENSITY  
MAKES FLOTATION DIFFICULT FOR IMMersed PERSON.

DISCLAIMER:

THIS MATERIAL SAFETY DATA SHEET DOES NOT CONSTITUTE ANY WARRANTY OR  
GUARANTEE 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  
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