



MATERIAL SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS Standards

PART I *What is the material and what do I need to know in an emergency?*

1. -----PRODUCT IDENTIFICATION

NAME: **NEOPENTANE**

2. -----COMPOSITION/INFORMATION ON INGREDIENTS-----

CAS#: 463-82-1

SYNONYMS

2,2-DIMETHYLPROPANE

SECTION 3. -----HAZARDS IDENTIFICATION-----

LABEL PRECAUTIONARY STATEMENTS

DANGER: EXTREMELY FLAMMABLE LIQUID AND GAS.

MAY FORM EXPLOSIVE MIXTURES WITH AIR.

VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND FLASH BACK.

SECTION 4. -----HEALTH HAZARDS IDENTIFICATION-----

ACUTE EFFECTS

MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION. MAY CAUSE EYE AND SKIN IRRITATION FROM OVEREXPOSURE. ANESTHETIC EFFECT RESULTING IN DROWSINESS, DIZZINESS AND HEADACHE.

PART II *What should I do if a hazardous situation occurs?*

SECTION 5. -----FIRST-AID MEASURES-----

IN CASE OF CONTACT IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. REMOVE CONTAMINATED CLOTHING PROMPTLY, AND WASH THOROUGHLY BEFORE REUSE. SEE A PHYSICIAN IF THERE IS PAIN OR IRRITATION.

SECTION 6. -----FIRE AND EXPLOSION MEASURES-----

EXTINGUISHING MEDIA

CARBON DIOXIDE, DRY CHEMICAL POWDER, ALCOHOL OR POLYMER FOAM.

SPECIAL FIRE FIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES. STOP THE FLOW OF LIQUID OR GAS (IF IT CAN BE ACCOMPLISHED SAFELY). USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME.

UNUSUAL FIRE AND EXPLOSION HAZARDS

EXTREMELY FLAMMABLE- CONTAINER EXPLOSION MAY OCCUR UNDER FIRE CONDITIONS.

PART IV *Is there any other useful information about this material?*

SECTION 7. -----STABILITY AND REACTIVITY-----

INCOMPATIBILITIES

STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION OR BY PRODUCTS.

CARBON OXIDES MAY RESULT FROM THERMAL OXIDATIVE DEGRADATION.

SECTION 8. -----ACCIDENTAL RELEASE MEASURES-----

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED.

EVACUATE AREA.

WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY RUBBER GLOVES.

SHUT OFF ALL SOURCES OF IGNITION.

VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

COVER WITH DRY LIME, SAND OR SODA ASH.

PLACE IN COVERED CONTAINERS USING NON-SPARKING TOOLS AND TRANSPORT OUTDOORS.

SECTION 9. -----DISPOSAL CONSIDERATIONS-----

WASTE DISPOSAL METHOD

BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER BUT EXPERT EXTRA CARE IN IGNITING AS THIS MATERIAL IS HIGHLY FLAMMABLE.

PART III *How can I prevent hazardous situations from occurring?*

SECTION 10. -----HANDLING AND STORAGE-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE.

AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID PROLONGED OR REPEATED EXPOSURE. MECHANICAL EXHAUST REQUIRED. SAFETY SHOWER AND EYE BATH. KEEP AWAY FROM IGNITION SOURCES.

WEAR APPROPRIATE OSHA/MSHA APPROVED RESPIRATOR, CHEMICAL RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.

KEEP CONTAINERS TIGHTLY CLOSED.

DO NOT BREATHE VAPOR.

USE NON-SPARKING TOOLS.

EXTREMELY FLAMMABLE!

SECTION 11. -----PHYSICAL AND CHEMICAL PROPERTIES-----

BOILING POINT: 10 C

FLASH POINT: -77 F G

MELTING POINT: -17 C

SPECIFIC GRAVITY: 0.5910

REFRACTIVE INDEX: 1.342

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE.