**Material Safety Data Sheet**

**Identification**

- **Name:** 2,2-Dimethylbutane, 99%
- **CAS #:** 75-83-2
- **MF:** C₆H₁₄

**Synonyms**
- Neohexane (DOT)*
- UN 1208 (DOT)*

**RTECS no:** EJ9300000
- **BUTANE, 2,2-DIMETHYLBUTANE, TOXICITY HAZARDS**

**EPA TSCA CHEMICAL INVENTORY, JUNE 1990**

**EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, SEPTEMBER 1990**

**Acute Effects**

- Harmful if inhaled or swallowed.
- Material is irritating to mucous membranes and upper respiratory tract.
- Causes eye irritation.

**First Aid**

- 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. If breathing is difficult, give oxygen.
- In case of fire, wear self-contained breathing apparatus.

**Boiling Point:** 50 °C
**Melting Point:** -100 °C
**Specific Gravity:** 0.649
**Vapor Density:** 2.97
**Vapor Pressure:** 274 mm Hg @ 21.1 °C

*CONTINUED ON NEXT PAGE*
MATERIAL SAFETY DATA SHEET

PRODUCT #: 015140-8
CAS #: 75-83-2
MF: C6H14

NAME: 2,2-DIMETHYLBUTANE, 99%

--------- PHYSICAL DATA ---------

9.86 PSI @ 37.7 C

APPEARANCE AND ODOR
COLORLESS LIQUID

--------- FIRE AND EXPLOSION HAZARD DATA ---------

FLASHPOINT: < -30
LOWER EXPLOSION LEVEL: 1.2%
UPPER EXPLOSION LEVEL: 7.7%

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

SPECIAL FIREFIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO
PREVENT CONTACT WITH SKIN AND EYES.
USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS
VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND
FLASH BACK.
EXTREMELY FLAMMABLE.
CONTAINER EXPLOSION MAY OCCUR UNDER FIRE CONDITIONS.
FORMS EXPLOSIVE MIXTURES IN AIR.

--------- REACTIVITY DATA ---------

INCOMPATIBILITIES
OXIDIZING AGENTS
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF: CARBON MONOXIDE, CARBON DIOXIDE

--------- SPILL OR LEAK PROCEDURES ---------

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
EVACUATE AREA.
SHUT OFF ALL SOURCES OF IGNITION.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY
RUBBER GLOVES.
COVER WITH AN ACTIVATED CARBON ADSORBENT, TAKE UP AND PLACE IN CLOSED
CONTAINERS. TRANSPORT OUTDOORS.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

WASTE DISPOSAL METHOD
BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND

CONTINUED ON NEXT PAGE
PRODUCT #: 015140-8
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---------------- SPILL OR LEAK PROCEDURES ----------------

SCRUBBER BUT EXERT EXTRA CARE IN IGNITING AS THIS MATERIAL IS HIGHLY
FLAMMABLE.
OBSERVE ALL FEDERAL, STATE, AND LOCAL LAWS.
--- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE ---

CHEMICAL SAFETY GOGGLES.
RUBBER GLOVES.
USE NONSPARKING TOOLS.
MECHANICAL EXHAUST REQUIRED.
NIOSH/MSHA-APPROVED RESPIRATOR.
DO NOT BREATHE VAPOR.
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.
WASH THOROUGHLY AFTER HANDLING.
IRRITANT.
KEEP TIGHTLY CLOSED.
KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.
MAY DEVELOP PRESSURE.
STORE IN A COOL DRY PLACE.

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE
ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ALDRICH SHALL NOT BE HELD
LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE
ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL
TERMS AND CONDITIONS OF SALE.

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