

1. Chemical Product and Company Information

Penta International Corp.
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Product Name: 3-METHYL-2-BUTENOL
Product Code: 13-30800

Molecular Formula: C5 H10 O

Molecular Weight: 86.13
CAS#: 556-82-1
FEMA#: 3647

2. Hazardous Ingredient(s)

Contains: SEE ABOVE

3. Physical Properties

Physical State: LIQUID	% Volatile: N/A
Odor: FRUITY, GREEN	Melting Point (°C): N/A
Color: COLORLESS TO PALE YELLOW	Vapor Density (Air = 1): >1
Solubility in Water: INSOLUBLE	Refractive Index @ 20C: 1.430
Boiling Point (°C): 140	Water Content: N/A
Vapor Pressure (mm Hg @ 20°C): N/A	Alcohol Content: N/A
Specific Gravity @ 25C (H2O=1.0): 0.850	

4. Physical Hazard Data

Hazard: FLAMMABLE LIQUID	3,UN1987,III
Shipping Name: ALCOHOLS, NOS	
Flash Point (°F): 110	Method Used: CC
L.F.L: N/A	U.F.L: N/A
DOT	NON-REGULATED
IMDG ALCOHOLS, NOS	3,UN1987, PG III
IATA ALCOHOLS, NOS	3,UN1987, PG III
Extinguishing Media: Carbon Dioxide; Dry Chemical; Universal Type Foam	

Special Fire Fighting Procedures: Evacuate unprotected and untrained personnel. Trained firefighting personnel should be equipped with self-contained breathing apparatus and full protective gear.

Unusual Fire, Explosion and Stability Hazards: VAPORS MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND FLASH BACK.

5. Health Hazard Data

Carcinogenicity:

NTP: NO OSHA: NO IARC MONOGRAPH: NO
OSHA PEL: NOT ESTABLISHED ACGIH TLV: NOT ESTABLISHED

Acute Toxicity Data:

ORAL LD50: 0.81 g/kg RAT
DERMAL LD50: 3.9 g/kg RABBIT
INHALATION LC50: NOT ESTABLISHED

Health Hazards (Acute and Chronic):

Skin Contact: MAY CAUSE IRRITATION
Inhalation: NOT ESTABLISHED
Eye Contact: MAY CAUSE IRRITATION
Ingestion: NOT ESTABLISHED

Other Effects:

The health hazard information is based on laboratory animal test data for the individual components of this product in their pure form as provided under 29 CFR 1910.1200 (d)(5)(ii). The user should consider the relevancy of this information in a manner consistent with its particular purpose.

6. Emergency First Aid Procedures

Eyes: IMMEDIATELY FLUSH EYES WITH LARGE QUANTITIES OF COLD CLEAN WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN IMMEDIATELY.

Skin: WASH WITH SOAP AND WATER. FLUSH WITH LARGE QUANTITIES OF WATER. IF IRRITATION PERSISTS CALL A PHYSICIAN.

Inhalation: REMOVE TO FRESH AIR AND CALL A PHYSICIAN IF NECESSARY.

Ingestion: ADMINISTER WATER OR MILK TO DILUTE. CONTACT A PHYSICIAN OR LOCAL POISON CONTROL CENTER IMMEDIATELY. **DO NOT** INDUCE VOMITING.

7. Reactivity Data

This material presents no significant hazard. Hazardous Polymerization will not occur and it will not react violently with water.

Contact with highly reactive chemical oxidants should be avoided. If burned this product will produce carbon monoxide and/or carbon dioxide.

8. Personal Protection

Eyes: IN GENERAL, THE USE OF SAFETY GLASSES IS RECOMMENDED. IF THE MATERIAL IS TO BE HANDLED IN A MANNER WHERE SPLASHING MAY OCCUR, THE USE OF SPLASH GOGGLES OR FACE SHIELD IS RECOMMEND.

Respiratory: IN WELL VENTILATED AREAS RESPIRATORY PROTECTION IS NOT NORMALLY REQUIRED. IN CONFINED, POORLY VENTILATED AREAS THE USE OF NIOSH-APPROVED RESPIRATORY PROTECTION MAYBE REQUIRED OR IF MATERIAL IS RATED TOXIC BY INHALATION.

Equipment and Apparel: THE USE OF CHEMICAL RESISTANT GLOVES IS RECOMMENDED. ACCEPTABLE INDUSTRIAL HYGIENE PRACTICES SHOULD BE MAINTAINED. LIMIT EXPOSURE TO PRODUCT WHENEVER POSSIBLE. WASH AFTER ANY CONTACT. THOROUGHLY WASH ANY CONTAMINATED CLOTHING OR SHOES.

Ventilation: VENTILATION MEETING ACGIH STANDARDS SHOULD BE EMPLOYED.

9. Storage and Handling

IT IS RECOMMENDED THAT THIS MATERIAL BE STORED IN TIGHT FULL CONTAINERS IN A COOL, DRY PLACE AWAY FROM LIGHT.

10. Spill, Release and Waste Disposal Procedures

REMOVE ANY SOURCES OF FLAME OR SPARKS. IF IN A CONFINED AREA NIOSH APPROVED RESPIRATORY PROTECTION MAY BE REQUIRED. ABSORB SPILLS ON VERMICULITE OR OTHER SUITABLE ABSORBENT MATERIAL AND REMOVE TO AN APPROVED DISPOSAL CONTAINER. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

11. Regulatory

US FEDERAL

HMIS III: PHYSICAL HAZARD: 1

HEALTH: 2 FLAMMABILITY: 2 REACTIVITY: 0 PERSONAL PROTECTION: X

TSCA

CAS# 556-82-1 IS LISTED ON THE TSCA INVENTORY.

HEALTH & SAFETY REPORTING LIST

NONE OF THE CHEMICALS ARE ON THE HEALTH & SAFETY REPORTING LIST.
CHEMICAL TEST RULES

NONE OF THE CHEMICALS IN THIS PRODUCT ARE UNDER A CHEMICAL TEST RULE.

SECTION 12B

NONE OF THE CHEMICALS ARE LISTED UNDER TSCA SECTION 12B.

TSCA SIGNIFICANT NEW USE RULE

NONE OF THE CHEMICALS IN THIS MATERIAL HAVE A SNUR UNDER TSCA.
CERCLA HAZARDOUS SUBSTANCES AND CORRESPONDING RQS

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NONE OF THE CHEMICALS IN THIS MATERIAL HAVE AN RQ.

SARA SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES

NONE OF THE CHEMICALS IN THIS PRODUCT HAVE A TPQ.

SECTION 313 NO CHEMICALS ARE REPORTABLE UNDER SECTION 313.

CLEAN AIR ACT:

THIS MATERIAL DOES NOT CONTAIN ANY HAZARDOUS AIR POLLUTANTS.

THIS MATERIAL DOES NOT CONTAIN ANY CLASS 1 OZONE DEPLETORS.

THIS MATERIAL DOES NOT CONTAIN ANY CLASS 2 OZONE DEPLETORS.

CLEAN WATER ACT:

NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED AS HAZARDOUS SUBSTANCES UNDER THE CWA.

NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED AS PRIORITY POLLUTANTS UNDER THE CWA.

NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED AS TOXIC POLLUTANTS UNDER THE CWA.

OSHA:

NONE OF THE CHEMICALS IN THIS PRODUCT ARE CONSIDERED HIGHLY HAZARDOUS BY OSHA.

STATE

CAS# 556-82-1 IS NOT PRESENT ON STATE LISTS FROM CA, PA, MN, MA, FL, OR NJ.

CALIFORNIA PROP 65

CALIFORNIA NO SIGNIFICANT RISK LEVEL: NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED.

EUROPEAN/INTERNATIONAL REGULATIONS

EUROPEAN LABELING IN ACCORDANCE WITH EC DIRECTIVES

HAZARD SYMBOLS: XN

RISK PHRASES:

R 10 FLAMMABLE.

R 21/22 HARMFUL IN CONTACT WITH SKIN AND IF SWALLOWED.

R 38 IRRITATING TO SKIN.

SAFETY PHRASES:

S 16 KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING.

S 23 DO NOT INHALE GAS/FUMES/VAPOUR/SPRAY.

S 33 TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES.

S 37 WEAR SUITABLE GLOVES.

S 45 IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

S 9 KEEP CONTAINER IN A WELL-VENTILATED PLACE.

S 28A AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF WATER

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WGK (WATER DANGER/PROTECTION)

CAS# 556-82-1: 1

CANADA - DSL/NDSL

CAS# 556-82-1 IS LISTED ON CANADA'S DSL LIST.

CANADA - WHMIS

THIS PRODUCT HAS A WHMIS CLASSIFICATION OF B3, D2B.

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATIONS AND THE MSDS CONTAINS ALL OF THE INFORMATION REQUIRED BY THOSE REGULATIONS.

CANADIAN INGREDIENT DISCLOSURE LIST

12. DisclaimerMaterial Safety Data Sheet prepared by: **Penta**

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