MATERIAL SAFETY DATA SHEET

Chemical Product and Company Identification

LABEL IDENTIFIER: Iso Amyl Acetate

PRODUCT IDENTIFIER: P/N 801628 Facepiece Fit Test Kit with Iso Amyl Acetate (banana oil)
P/N 801629 Facepiece Fit Test Kit with Iso Amyl Acetate (banana oil), in case

COMPANY IDENTIFICATION: MINE SAFETY APPLIANCES COMPANY
P.O. Box 439
Pittsburgh, PA 15230
CUSTOMER SERVICE: 1-800-MSA-2222 (8:30 a.m. – 5:00 p.m., USA local time)
EMERGENCY: 1-800-255-3924 (CHEM-TEL, INC.)

Vendor Information

A Material Safety Data Sheet as furnished by Allegro Industries for Iso Amyl Acetate is attached (2 Pages).

Allegro Industries MSDS REVISION DATE: 10/07

Other Information

WARNING: This is a hazardous chemical product. By following the directions and warnings provided with this product, the hazards associated with the use of this product can be greatly reduced but never entirely eliminated. Mine Safety Appliances Company makes no warranties, expressed or implied, with respect to this product and EXPRESSLY DISCLAIMS THE WARRANTY OF MERCHANTABILITY AND ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. Users assume all risks in handling, using or storing this product.

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1. IDENTIFICATION AND GENERAL INFORMATION

P/N#:	0201, 0202-01, 0203-01
Nomenclature:	**Banana Oil**
Company Name:	Allegro Industries
Address:	7221 Orangewood Avenue Garden Grove, CA 92841 714-899-9855 Chemtrac: 800-424-9300

NFPA Code

H 1
F 3
R 0
O 0

2. COMPOSITION

Chemical Name:	Isoamyl Acetate
Chemical Family:	N/A
Synonyms	3-Methyl Butyl Acetate, Acetate, Amyl Acetate, Banana Oil
Molecular Weight:	130.19
Molecular Formula:	$C_7H_{14}O_2$

Ingredient:	**n-amyl Acetate**	**2-Methyl Butyl Acetate**	**Isoamyl Acetate**
CAS Number:	628-63-7	624-41-9	123-92-2
Percent:	60.0%	35.0%	5.0%

3. HAZARDS IDENTIFICATION

Physical Dangers:	The vapor mixes well with air, explosive mixtures are easily formed.
Chemical Dangers:	Reacts violently with strong oxidizers, causing fire and explosion hazard.
Routes of Exposure:	Inhalation, ingestion, skin contact.
Target Organs:	Possible damage to kidneys, liver, and central nervous system.
Health Hazards:	
Inhalation:	Inhalation of vapors causes irritation to the respiratory tract. High concentrations can cause narcosis, headache, fatigue, chest pains, cough, nausea, dizziness, and possible damage to liver and kidneys.
Skin Contact:	May cause irritation, redness and pain. Liquid degreases the skin.
Eye Contact:	Vapors >300 PPM cause burning sensations in the eyes, irritation, redness and pain.
Ingestion:	May be absorbed through the gastrointestinal tract; symptoms may parallel inhalation. Additional symptoms may include vomiting, stomach pain.
Chronic Exposure:	Prolonged or repeated skin exposure may cause dermatitis and eye effects.
Acute Exposure:	None known
Aggravation of Pre-Ex.Cond:	Use of alcoholic beverages may enhance toxic effect.

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air and rest; contact physician if necessary.
Skin Contact:	The affected area should be thoroughly washed with soap and water. Flush with large quantities of water. If irritation persists, call a physician.
Eye Contact:	Flush immediately with cold, clean water for at least 15 minutes. Contact a physician immediately.
Ingestion:	Administer water or milk to dilute. Contact a physician or the local poison control center immediately.

5. FIRE FIGHTING MEASURES

Fire Hazards:	Flammable. No open flames. No sparks and no smoking. No contact with oxidants.
Fire Extinguisher:	Alcohol-resistant foam, Powder, Carbon dioxide.
Explosion:	Above 25° C explosive vapor/air mixtures may be formed. Risk of fire and explosion on contact with oxidants, a closed system, ventilation and explosion-proof electrical equipment. In case of fire, keep drums, etc. cool by spraying with water.
Flash Point:	25° C
Volatile (% by volume):	100%
Exp. Limits (Vol % in air):	LEL: 1.0 UEL: 7.5
Auto Ignition Temperature:	379° C
Special Fire Fighting Proc:	None
PPE for Fire Fighters	Use of self-contained breathing apparatus and protective clothing is recommended.
Notes:	None

6. ACCIDENTAL RELEASE MEASURES

Procedure for spill/leak:	Remove any source of flame or sparks. If in a confined area, NIOSH approved respiratory protection may be required. Absorb spills with vermiculite sand or other suitable inert absorbent material.
Waste Disposal:	Dispose of in accordance with current laws and regulations.

7. HANDLING AND STORAGE

Storage:	Store in tight containers in a cool, dry place away from light. Separate from strong oxidants
Self Life:	3 Years
PPE:	Use Safety goggles and gloves if handling in large quantities.
Notes:	None

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8. EXPOSURE CONTROLS

PPE:	Respiratory protection is normally not required in well-ventilated areas, however, NIOSH approved respiratory protection may be required when the material is rated toxic by inhalation or if the material is used in a confined area.
Inhalation:	A half-face organic vapor respirator may be worn for up to ten times the exposure limit. A full-face piece organic vapor respirator may be worn up to 50 times the exposure limit.
Skin:	Chemical-resistant gloves are recommended.
Eye:	The use of safety goggles or a face shield is recommended.
Ingestion:	Do not ingest. Do not eat or drink when handling.
Ventilation:	Ventilation meeting ACGIH standards should be employed.
Engineering Controls:	N/A
Work/Hygienic Practices:	Use good personal hygiene practices. Limit exposure to product whenever possible. Wash after any contact. Thoroughly wash any contaminated clothing or shoes before reuse.

Exposure Limits:

Chemical:	**n-Amyl Acetate**
TLV (ACGIH TLV):	100 ppm 532mg/m^3
PEL (OSHA PEL):	100ppm, 525mg/ m^3
IDLH	1000ppm
Control Parameter:	N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

Color/Appearance/Odor:	Colorless liquid. Fruity pear or banana-like odor and flavor. Characteristic odor (SCR, KOD, SIT).
Boiling Point	142° C at 760 MM HG
Melting Point	-79° C
Specific Gravity (H_2O=1):	0.8680 – 0.8780 at 25° C
Refractive Index:	1.400 – 1.4040 at 25° C
Relative Density:	0.88
Evaporative Rate:	N/A
Water Content:	N/A
Vapor Density(Air-1):	4.5 (Air = 1)
Vapor Pressure:	5.600 (MM HG at 25° C); 0.53 (kPa at 20° C)
Solubility in Water:	0.2 (g/100ml at 20° C)

10. STABILITY AND REACTIVITY

Conditions to avoid:	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.
Materials to avoid	This material presents no significant reactivity hazard.

11. TOXICOLOGICAL INFORMATION

Health effects:

Oral LD50:	>5,000 MG/KG Rat
Dermal LD50:	>5,000 MG/KG Rabbit
Notes:	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.

12. ECOLOGICAL INFORMATION

For n-Amyl Acetate: When released into the soil, this material may leach into groundwater and is expected to have a half-life of less than 1 day. When released into the air, this material is expected to have a half-life between 1 and 10 days.

For Isoamyl Acetate: When released into the soil, this material may leach into groundwater and is expected to have a half-life of greater than 30 days. When released into the air, this material is expected to have a half-life of between 1 and 10 days.

13. DISPOSAL CONSIDERATIONS

Dispose of container and unused contents in accordance with federal, state and local requirements.

14. TRANSPORT INFORMATION

Proper shipping name:	n-Amyl Acetate
Transport Emergency Card:	TEC (R)-581
Packing Group:	III
UN Number:	1104
Reportable Quantity	20L

15. REGULATORY INFORMATION

TSCA Registered:	Yes	RTECS:	N/A
ICSC:	0356		

16. OTHER INFORMATION

No data available

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