



Material Safety Data Sheet

acc. to ISO/DIS 11014

MERECO

Printing date 12/22/2003

Version 1

Reviewed on 11/03/2003

1 Identification of substance

· Product details

· Trade name: **Metapart 7582**

· Application of the substance / the preparation

Release agent

· Manufacturer/Supplier:

Mereco Division
Metachem Resins Corporation
1505 Main Street
West Warwick, RI 02893
USA

Phone +1 / 401 / 822-9300

· Information department: Technical department.

· Emergency information: Telephone: (800) 424-9300 (Chemtrec)
Call this number in the event of an accident resulting in a spill, leak or fire. Call this number in the event of exposure to the chemicals.

2 Composition/Data on components

· Chemical characterization

· Description: Mixture of the substances listed below with nonhazardous additions.

· Components:

67-63-0	isopropanol	Xi, F; R 11-36-67
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· Additional information:

For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

· Hazard description: Xi Irritant
F Highly flammable

· Information pertaining to particular dangers for man and environment:

The product has to be labelled due to the calculation procedure of international guidelines.
Has a narcotizing effect.
R 11 Highly flammable.
R 36 Irritating to eyes.
R 67 Vapours may cause drowsiness and dizziness.

· Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· NFPA ratings (scale 0 - 4)

Health = 2
Fire = 3
Reactivity = 0

(Contd. on page 2)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 12/22/2003

Version 1

Reviewed on 11/03/2003

Trade name: Metapart 7582

(Contd. of page 1)

· **HMIS-ratings (scale 0 - 4)**

Health	= 2
Fire	= 3
Reactivity	= 0

4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
 - **After skin contact:** Generally the product does not irritate the skin.
 - **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
 - **After swallowing:** If symptoms persist consult doctor.
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5 Fire fighting measures

- **Suitable extinguishing agents:** CO2, sand, extinguishing powder. Do not use water.
 - **For safety reasons unsuitable extinguishing agents:** Water
Water with full jet
 - **Special hazards caused by the material, its products of combustion or resulting gases:** In case of fire hazardous gases/vapors that are released may include carbon monoxide, carbon dioxide, hydrogen chloride and hydrogen fluoride. Inhalation of decomposition products may cause lung irritation requiring medical treatment for fluorine compounds which can cause delayed pulmonary edema.
 - **Protective equipment:** Wear self-contained respiratory protective device.
-

6 Accidental release measures

- **Person-related safety precautions:** Mouth respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
 - **Measures for environmental protection:** Prevent seepage into sewage system, workpits and cellars.
Do not allow to enter sewers/ surface or ground water.
 - **Measures for cleaning/collecting:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
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— USA —

(Contd. on page 3)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 12/22/2003

Version 1

Reviewed on 11/03/2003

Trade name: Metapart 7582

(Contd. of page 2)

7 Handling and storage

- **Handling:**

- **Information for safe handling:**

Store in cool, dry place in tightly closed receptacles.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Use only in well ventilated areas.

- **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Store in a cool location.
Unsuitable material for receptacle: aluminum.

- **Information about storage in one common storage facility:**

Not required.

- **Further information about storage conditions:**

Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls and personal protection

- **Additional information about**

design of technical systems: No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

67-63-0 isopropanol	
PEL	980 mg/m ³ , 400 ppm
REL	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV	Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.

- **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device.
In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- **Protection of hands:**

Protective gloves

(Contd. on page 4)

— USA —

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 12/22/2003

Version 1

Reviewed on 11/03/2003

Trade name: Metapart 7582

(Contd. of page 3)

- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material is based on consideration of the penetration times, rates of diffusion and the degradation of the material.
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
 - **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
 - **Eye protection:**
Tightly sealed goggles
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9 Physical and chemical properties

· General Information	
· Form:	Fluid
· Color:	Whitish
· Odor:	Alcohol-like
· Change in condition	
· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	82°C (180°F)
· Flash point:	13°C (55°F)
· Ignition temperature:	425.0°C (797°F)
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
· Lower:	2.0 Vol %
· Upper:	12.0 Vol %
· Vapor pressure at 20°C (68°F): 43.0 hPa (32 mm Hg)	
· Density at 20°C (68°F): 0.800 g/cm ³	
· Solubility in / Miscibility with	
· Water:	Not miscible or difficult to mix.
· Solvent content:	
· Organic solvents:	96.3 %

— USA —

(Contd. on page 5)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 12/22/2003

Version 1

Reviewed on 11/03/2003

Trade name: **Metapart 7582**

(Contd. of page 4)

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** Irritant gases/vapors

11 Toxicological information

- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

67-63-0 isopropanol

Oral	LD50	5045 mg/kg (rat)
Dermal	LD50	12800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)

- **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:** The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

12 Ecological information

- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **DOT regulations:**
 - **Hazard class:** 3
 - **Identification number:** UN1219
 - **Packing group:** II
 - **Proper shipping name (technical name):** ISOPROPANOL (ISOPROPYL ALCOHOL), mixture

(Contd. on page 6)

— USA —

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 12/22/2003

Version 1

Reviewed on 11/03/2003

Trade name: Metapart 7582

(Contd. of page 5)

· Label	3
· Land transport ADR/RID (cross-border):	
· ADR/RID class:	3 Flammable liquids
· Danger code (Kemler):	33
· UN-Number:	1219
· Packaging group:	II
· Description of goods:	1219 ISOPROPANOL (ISOPROPYL ALCOHOL), mixture
· Maritime transport IMDG:	
· IMDG Class:	3
· UN Number:	1219
· Label	3
· Packaging group:	II
· EMS Number:	F-E,S-D
· Marine pollutant:	No
· Propper shipping name:	ISOPROPANOL (ISOPROPYL ALCOHOL), mixture
· Air transport ICAO-TI and IATA-DGR:	
· ICAO/IATA Class:	3
· UN/ID Number:	1219
· Label	3
· Packaging group:	II
· Proper shipping name:	ISOPROPANOL (ISOPROPYL ALCOHOL), mixture

15 Regulations

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· Section 355 (extremely hazardous substances):	None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):		
67-63-0	isopropanol	75-100%
· Sections 311/312 (Specific hazard chemical listings):		
67-63-0	isopropanol	
· Sections 311/312 Hazard Categorizations:		
67-63-0	isopropanol A = Acute health hazard; F = Fire hazard	75-100%
· TSCA (Toxic Substances Control Act):	All ingredients are listed.	
· Proposition 65		
· Chemicals known to cause cancer:	None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity:	None of the ingredients is listed.	

(Contd. on page 7)

— USA —

Material Safety Data Sheet

acc. to ISO/DIS 11014

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Version 1

Reviewed on 11/03/2003

Trade name: Metapart 7582

(Contd. of page 6)

· **Carcinogenity categories**

· EPA (Environmental Protection Agency)		
None of the ingredients is listed.		
· IARC (International Agency for Research on Cancer)		
67-63-0	isopropanol	3 75-100%
· NTP (National Toxicology Program)		
None of the ingredients is listed.		
· TLV (Threshold Limit Value established by ACGIH)		
None of the ingredients is listed.		
· MAK (German Maximum Workplace Concentration)		
None of the ingredients is listed.		
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		
· OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.
Flammable.

· **Hazard symbols:**

Xi Irritant
F Highly flammable

· **Risk phrases:**

11 Highly flammable.
36 Irritating to eyes.
67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

7/9 Keep container tightly closed and in a well-ventilated place.
16 Keep away from sources of ignition - No smoking.
23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
24/25 Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
33 Take precautionary measures against static discharges.
43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.
60 This material and its container must be disposed of as hazardous waste.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant R-phrases**

11 Highly flammable.
36 Irritating to eyes.
67 Vapours may cause drowsiness and dizziness.

(Contd. on page 8)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 12/22/2003

Version 1

Reviewed on 11/03/2003

Trade name: Metapart 7582

(Contd. of page 7)

- **Department issuing MSDS:** Technical department.
 - **Contact:** Dr. John F. Plummer
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— USA —