Material Safety Data Sheet

Revision Date
17-Mar-2007

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code	DA7490
Product name	Metalize
Recommended Use	Coating
Supplier	Drummond American Corporation 600 Corporate Woods Parkway Vernon Hills, IL 60061 (847) 913-9313
Emergency telephone number	(866) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview
Flammable. Harmful if swallowed. Irritant

Aggravated Medical Conditions
None known

Principal Routes of Exposure
Inhalation, Eyes, Skin contact.

Potential health effects

Eyes	Irritation. Redness, Itching, Burning sensation
Skin	Repeated or prolonged exposure may cause : Skin irritation, Redness, Itching, Burning sensation
Inhalation	Repeated or prolonged exposure may cause the following effects. Headaches, Dizziness, Nausea. Upper respiratory tract irritation. Central nervous system effects. Loss of coordination. Extreme overexposure may cause. Possible unconsciousness, Death
Ingestion	May be harmful if swallowed

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Acetone	67-64-1	15-40
Methyl ethyl ketone	78-93-3	10-30
Dimethyl ether	115-10-6	15-40
2-Butoxyethanol	111-76-2	1-5

4. FIRST AID MEASURES

Eye contact	Flush with plenty of water for at least 15 minutes. Seek medical attention
Skin contact	Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before reuse.
Ingestion	Do not induce vomiting. Immediate medical attention is required
Inhalation	Remove from exposure. Restore breathing. Keep warm and quiet. Contact physician if breathing difficulty develops.

5. FIRE FIGHTING MEASURES

Flash point °C	< -17
Flash point °F	< 0
Method	No information available
Autoignition temperature °C	No data available
Autoignition temperature °F	
Flammability Limits (% in Air)	
Upper	27.0 No data available
Lower	No data available

Specific Information for Aerosol Products

Flame extension	Unknown
Flashback	Unknown

Suitable extinguishing media
Carbon dioxide (CO2), Dry chemical, Foam

Special protective equipment for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Special Fire-Fighting Procedures
Avoid breathing of vapors. Avoid skin and eye contact

Specific hazards
Keep product and empty container away from heat and sources of ignition. In the event of fire and/or explosion do not breathe fumes

Fire and Explosion Hazards
During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention. Firefighters should wear NIOSH/MSHA approved (or equivalent) self-contained pressure-demand breathing apparatus and full protective clothing. Water should be used to cool closed containers to prevent pressure build up and possible autoignition or explosion when exposed to extreme heat. Water spray may be ineffective. If water is used, fog nozzles are preferable.

Sensitivity to shock
No information available

Sensitivity to static discharge
No information available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Use personal protective equipment.

Methods for cleaning up
Eliminate all sources of ignition. Ventilate area to maintain exposure below permissible exposure limits. Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Handling
Keep in a well-ventilated place. Turn off other sources of ignition prior to use and until all vapors have dissipated. Vapors may accumulate readily and may ignite explosively. Remove all sources of ignition. Keep away from open flame. Do not smoke. Check to make sure that all equipment is properly grounded and installed to satisfy electrical classification requirements. Contents under pressure. Do not puncture or incinerate. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of reach of children.

Storage
Store in temperatures below 120 degrees F

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Acetone	1000 ppm 2400 mg/m³	-	500 ppm	750 ppm
Dimethyl Ether	-	-	-	-
Methyl ethyl Ketone	200 ppm 590 mg/m³	-	200 ppm	300 ppm
2-Butoxyethanol	240 mg/m³ 50 ppm	-	20 ppm	-

Ventilation and Environmental Controls
Use enough ventilation, local exhaust at the work area, or both, to keep below the TLV's in the worker's breathing zone and the general area. General, as necessary

Hygiene measures
Wash hands before breaks and immediately after handling the product

Other precautions
Avoid contact with the skin and the eyes

Respiratory protection
If the exposure limits are exceeded, a NIOSH/MSHA approved respirator is recommended

Hand Protection
Gloves are not required in normal use. The following gloves are recommended for prolonged or repeated contact : Chemical resistant gloves

Eye protection
Wear safety glasses with side shields.

Skin and body protection
None necessary under normal conditions

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Aerosol
Color	Colorless
Odor	Slight
Odor Threshold	No information available
pH	No data available
Specific Gravity	No data available
Vapor pressure	No data available
Vapor density	>1 (air=1)
Evaporation Rate	>1 (ether = 1)
Water solubility	No data available
VOC Content	56.93
Partition Coefficient (n-octanol/water)	No data available
Boiling point/range °C	-18 - 172
Boiling point/range °F	0 - 343
Melting point/range °C	No data available
Melting point/range °F	No data available
Flash point °C	< -17
Flash point °F	< 0

10. STABILITY AND REACTIVITY

Stability
Stable

Conditions to avoid
None known

Incompatability
None

Hazardous Decomposition Products
Carbon dioxide, Carbon monoxide

Polymerization
Will not occur

11. TOXICOLOGICAL INFORMATION

Component Information

Chemical Name	LD50 (oral,rat)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat)
Acetone 67-64-1	1800 mg/kg	20000 mg/kg	76 mg/l
Dimethyl ether 115-10-6	-	-	308.5 mg/L

Chemical Name	LD50 (oral,rat)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat)
Methyl ethyl ketone 78-93-3	2600 mg/kg	6400 mg/kg	12 g/m
2-Butoxyethanol 111-76-2	470 mg/kg	220 mg/kg 2270 mg/kg	2.21 mg/L 450 ppm

Microtox Data
Photobacterium phosphoreum EC50=2103 mg/L (30 min)
Photobacterium phosphoreum EC50=3426 mg/L (5 min)

Synergistic Products None known

Potential health effects

Sensitization None known

Chronic toxicity None known

Mutagenic effects None known

Teratogenic effects None known

Reproductive toxicity None known

Target Organ Effects None Known

Carcinogenic effects
See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Acetone	Listed	Not Listed	Not Listed	Not Listed	Not Listed
Dimethyl ether	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Methyl ethyl ketone	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
2-Butoxyethanol	Listed	Not Listed	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

Acetone
Water Flea Data
water flea LC50=0.0039 mg/L (48 h)
water flea EC50=12700 mg/L (48 h)

Dimethyl ether
Water Flea Data
water flea LC50=1852 mg/L (96 h)

Methyl ethyl ketone

Water Flea Data
water flea EC50=520 mg/L (48 h)

2-Butoxyethanol
Water Flea Data
water flea LC50=1700 mg/L (24 h)

13. DISPOSAL CONSIDERATIONS

Disposal Information
As supplied, this product is a RCRA Hazardous Waste. Waste must be tested for ignitability to determine EPA hazardous waste numbers. Do not incinerate or incinerate. Depressurize before disposal.

Waste from residues / unused products
Dispose in accordance with federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

DOT
UN1950 Aerosols, flammable (Dimethyl ether), Class 2.1
Exception (Compressed Gas not more than 1 QL) Consumer Commodity ORM-D

TDG
UN1950 AEROSOLS, flammable (Dimethyl ether), Class 2.1 (Consumer commodity, ORM-D)

IMDG/IMO
UN1950 AEROSOLS (Dimethyl ether), Class 2.1

IATA
UN1950 Aerosols, flammable (Dimethyl ether), Class 2.1

MEX
UN1950 AEROSOLES (Dimethyl Ether),2.1

15. REGULATORY INFORMATION

Chemical Name	US EPA SARA 313 Emission Reporting
Methyl ethyl ketone	Listed
2-Butoxyethanol	Listed

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Acetone	Listed	Listed	Not Listed
Dimethyl ether	Listed	Listed	Not Listed
Methyl ethyl ketone	Listed	Listed	Not Listed
2-Butoxyethanol	Listed	Listed	Not Listed

Chemical Name	EINECS	DSL	NDSL	EPCRA
Acetone	Y	Y		
Dimethyl ether	Y	Y		
Methyl ethyl ketone	Y	Y		
2-Butoxyethanol	Y	Y		

CPRC
This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all the information required by the Controlled Product Regulations.

16. OTHER INFORMATION

HMIS

Health - 2
Flammability - 4
Physical Hazard - 0

Prepared By Michael Katz, Regulatory Affairs Specialist

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.