

MATERIAL SAFETY DATA SHEET  
ESSENTIALLY SIMILAR TO OSHA FORM 174

OPEN & SHUT  
DA 6151

MANUFACTURED FOR:

Drummond American Corporation  
600 Corporate Woods Pkwy.  
Vernon Hills, IL 60061

ROCKY MOUNTAIN POISON & DRUG CENTER  
COLLECT AT: (303) 623-5716

IN CASE OF EMERGENCY CALL:

DATE OF PREPARATION:  
(09/01/96)

INFORMATION TELEPHONE NUMBER  
(847) 913-9313

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION:  
OSHA CLASS N/A  
DOT CLASS GRM-D  
U.N. CLASSIFICATION:  
PER DOT N/A  
PER IMCO N/A

FLASH POINT: N/A

LEL: 7.0

UEL: 13.0

METHOD: TAG CLOSED CUP

AEROSOL PRODUCT: TREAT AS CYLINDER OF COMPRESSED GAS

EXTINGUISHING MEDIA: WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS:  
At elevated temperatures (over 120°F) containers may vent, rupture,  
or burst.

SPECIAL FIREFIGHTING PROCEDURE:  
Keep containers cool. Use shielding to protect personnel against  
bursting, rupturing or venting containers. Wear a positive pressure  
self-contained breathing apparatus.

SECTION V - REACTIVITY DATA

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

HAZARD DECOMPOSITION PRODUCTS:

Hydrogen chloride, oxides of carbon, and minute traces of phosgene  
and chlorine may be formed upon combustion or thermal decomposition.

CONDITIONS TO AVOID:

None known.

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong bases, oxidizing materials, metallic aluminum, and zinc  
powders.

D.O.T. EMERGENCY RESPONSE INFORMATION:

\*\*\*NOT APPLICABLE\*\*\*

SECTION I - IDENTITY

PRODUCT NUMBER DA 6151  
PRODUCT NAME OPEN & SHUT  
PRODUCT CLASS SOLVENTS

SECTION II - INGREDIENTS

| INGREDIENT           | CAS NUMBER | %     | ACGIH   |    | PEL | STEL |
|----------------------|------------|-------|---------|----|-----|------|
|                      |            |       | TLV PPM | M3 |     |      |
| PETROLEUM DISTILLATE | 64742-47-8 | 5-20  | 500     | ND | ND  | ND   |
| PETROLEUM OIL        | 64742-52-5 | 5-20  | ND      | 5  | ND  | ND   |
| TRICHLOROETHYLENE *  | 79-01-6    | 50-75 | 50      | ND | 50  | 100  |
| CARBON DIOXIDE       | 124-38-9   | 1-5   | 5000    | ND | 10M | 30M  |

\* THIS CHEMICAL IS SUBJECT TO  
S.A.R.A. TITLE III SECTION 313  
REPORTING

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT (degrees F): 165

VAPOR DENSITY: Heavier than air

EVAPORATION RATE: > Butyl Acetate

PERCENT VOLATILE (By Weight): N/A WEIGHT PER GALLON (LBS): 10.33

OPTIONAL INFORMATION:

Appearance/ Odor: Clear brown liquid, sweet odor.

Specific Gravity (Water=1): 1.24

Solubility in Water: Negligible

Vapor Pressure (mm Hg): 89

CALIFORNIA PROPOSITION 65 WARNING: THIS PRODUCT CONTAINS A CHEMICAL  
KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

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SECTION VI - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

Eyes/Skin: irritation may occur.  
Inhalation: irritation to the respiratory tract, dizziness, confusion, fainting, increased myocardial irritability, Central Nervous System depression may occur.

PRIMARY ROUTE(S) OF ENTRY: DERMAL INHALATION

MEDICAL CONDITIONS PRONE TO OVEREXPOSURE:

Heart rhythm disorders. Increased sensitivity to Epinephrine.

TARGET ORGANS AFFECTED:  
Kidneys and Liver.

CARCINOGENICITY:

NTP - NO OSHA - NO IARC - YES (2A-PROBABLY CARCINOGENIC)

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: Remove contacts. Flush eyes with plenty of water while holding eyelids open.  
SKIN CONTACT: Remove contaminated clothing, then wash affected skin with soap and water.  
INHALATION: Remove victim to fresh air and maintain breathing. If irritation continues or develops later, seek medical attention.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Provide adequate ventilation. Remove sources of flame, spark or heat. Soak up spill with an absorbent material and place in a container for proper disposal.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state, and federal regulations. Do not puncture or incinerate container.

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SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION:

None required if good ventilation is maintained. If the TLV is exceeded, use a NIOSH-approved respirator.

VENTILATION:

Local exhaust is adequate under normal conditions. Mechanical ventilation is optional.

PROTECTIVE GLOVES:

Gloves which are impervious to the ingredients found in this product are recommended.

EYE PROTECTION:

Safety glasses or goggles are recommended.

OTHER PROTECTIVE EQUIPMENT:

Wear impervious clothing to prevent skin contact.

HYGIENIC PRACTICES:

WASH HANDS BEFORE EATING OR USING THE WASHROOM. SMOKE ----  
IN SMOKING AREAS ONLY.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Warning: contents under pressure. Keep out of reach of children. Do not expose to direct sunlight or store at room temperatures above 120°F. Avoid breathing vapors and contact with eyes or skin.

OTHER PRECAUTIONS:

Read and follow directions on the product label.

SECTION X - OTHER INFORMATION

-----NFPA INDEX-----  
HEALTH 3  
FLAMMABILITY 0  
REACTIVITY 1

PREPARED BY:

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600 Corporate Woods Parkway  
Vernon Hills, Illinois 60061

TLV Threshold Limit Value  
PEL Permissible Exposure Level  
NFPA National Fire Protection Association  
CAS Chemical Abstract Service  
NTP National Toxicology Program  
OSHA Occupational Safety and Health Admin.  
IARC International Agency for Research on Cancer  
STEL Short Term Exposure Limit, duration is for 15 minutes

NO No Data  
LEL Lower Explosive Level  
NE Not Established  
PPH Parts Per Million  
D.O.T. Department of Transportation  
N/A Not Applicable  
M<sup>3</sup> Approximate milligrams of substance per cubic meter of air

---NFPA HAZARD INDEX---  
SEVERE HAZARD 4  
SERIOUS HAZARD 3  
MODERATE HAZARD 2  
SLIGHT HAZARD 1  
MINIMAL HAZARD 0