

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product number** 701  
**Product name** CROWN HEAVY DUTY INDUSTRIAL BRAKE & PARTS CLEANER  
**Effective date** 02-May-2007  
**Manufacturer information** CROWN EQUIPMENT CORPORATION  
44 SOUTH WASHINGTON STREET  
NEW BREMEN, OH 45869 United States  
**Manufacturer phone** General Assistance 1-419-629-2311  
**Emergency telephone US** 866-836-8855  
**Emergency telephone outside US** 952-852-4646

## 2. Hazards Identification

**Emergency overview** FLAMMABLE  
CONTENTS UNDER PRESSURE.  
Aerosol. Pressurized container may explode when exposed to heat or flame.

Harmful in contact with eyes. Irritating to skin. Irritating to respiratory system. Prolonged exposure may cause chronic effects.

**OSHA regulatory status** This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

**Potential health effects**

**Routes of exposure** Inhalation. Skin contact.

**Eyes** Contact may irritate or burn eyes. Eye contact may result in corneal injury.

**Skin** Irritating to skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

**Inhalation** Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Irritating to respiratory system. Prolonged inhalation may be harmful.

**Ingestion** Exposure by ingestion of an aerosol is unlikely. May cause delayed lung damage.

**Target organs** Central nervous system. Respiratory system.

**Chronic effects** Conjunctiva. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. May cause delayed lung damage.

**Signs and symptoms** Discomfort in the chest. Corneal damage. Narcosis. Conjunctivitis. Defatting of the skin. Irritation.

**Potential environmental effects** Components of this product are hazardous to aquatic life.

## 3. Composition / Information on Ingredients

| Components         | CAS #    | Percent |
|--------------------|----------|---------|
| n-Hexane           | 110-54-3 | 40 - 50 |
| Methylcyclopentane | 96-37-7  | 10 - 15 |
| Isopropyl Alcohol  | 67-63-0  | 8 - 10  |
| Carbon Dioxide     | 124-38-9 | 3 - 5   |
| Cyclopentane       | 287-92-3 | 3 - 5   |
| Cyclohexane        | 110-82-7 | 3 - 5   |

## 4. First Aid Measures

### First aid procedures

#### Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention immediately.

## 8. Exposure Controls / Personal Protection

### Exposure limits

#### ACGIH

| Components        | CAS #    | TWA      | STEL            | Ceiling         |
|-------------------|----------|----------|-----------------|-----------------|
| n-Hexane          | 110-54-3 | 50 ppm   | 1000 ppm        | Not established |
| Isopropyl Alcohol | 67-63-0  | 200 ppm  | 400 ppm         | Not established |
| Carbon Dioxide    | 124-38-9 | 5000 ppm | 30000 ppm       | Not established |
| Cyclopentane      | 287-92-3 | 600 ppm  | Not established | Not established |
| Cyclohexane       | 110-82-7 | 100 ppm  | Not established | Not established |

#### OSHA

| Components        | CAS #    | TWA      | STEL            | Ceiling         |
|-------------------|----------|----------|-----------------|-----------------|
| n-Hexane          | 110-54-3 | 500 ppm  | Not established | Not established |
| Isopropyl Alcohol | 67-63-0  | 400 ppm  | Not established | Not established |
| Carbon Dioxide    | 124-38-9 | 5000 ppm | Not established | Not established |
| Cyclohexane       | 110-82-7 | 300 ppm  | Not established | Not established |

### Engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

### Personal protective equipment

#### Eye / face protection

Wear chemical goggles.

#### Skin protection

Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing.

#### Respiratory protection

Wear positive pressure self-contained breathing apparatus (SCBA).

#### General hygiene considerations

Avoid contact with eyes. Avoid contact with skin. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical & Chemical Properties

|                                                |                              |
|------------------------------------------------|------------------------------|
| Appearance                                     | Not available                |
| Color                                          | Colorless.                   |
| Odor                                           | Solvent.                     |
| Physical state                                 | Liquid.                      |
| Form                                           | Aerosol.                     |
| Flammability (HOC)                             | 38.77 kJ/g estimated         |
| Flammability limits in air, upper, % by volume | Not available                |
| Flammability limits in air, lower, % by volume | Not available                |
| Flash back                                     | No                           |
| Pressure                                       | 55 - 65 psig @ 70F           |
| Solubility                                     | Partially                    |
| Flash point                                    | None                         |
| Boiling point                                  | 116.6 °F (47.2 °C) estimated |
| Specific gravity                               | 0.7011 estimated             |

## 10. Chemical Stability & Reactivity Information

|                                  |                                                               |
|----------------------------------|---------------------------------------------------------------|
| Chemical stability               | Risk of ignition. Stable at normal conditions.                |
| Conditions to avoid              | Heat, flames and sparks.                                      |
| Incompatible materials           | Isocyanates.                                                  |
| Hazardous decomposition products | Irritants. Toxic gas. May include oxides of oxides of carbon. |

241

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

**Inventory status**

| Country(s) or region        | Inventory name                                             | On inventory (yes/no)* |
|-----------------------------|------------------------------------------------------------|------------------------|
| China                       | Inventory of Existing Chemical Substances in China (IECSC) | No                     |
| Europe                      | European Inventory of New and Existing Chemicals (EINECS)  | Yes                    |
| Europe                      | European List of Notified Chemical Substances (ELINCS)     | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)   | No                     |
| Korea                       | Existing Chemicals List (ECL)                              | No                     |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory              | Yes                    |

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**State regulations**

**U.S. - Pennsylvania - RTK (Right to Know) List**

|                    |          |                      |
|--------------------|----------|----------------------|
| Carbon Dioxide     | 124-38-9 | Present              |
| Cyclohexane        | 110-82-7 | Environmental hazard |
| Cyclopentane       | 287-92-3 | Present              |
| Isopropyl Alcohol  | 67-63-0  | Environmental hazard |
| Methylcyclopentane | 96-37-7  | Present              |
| n-Hexane           | 110-54-3 | Present              |

**16. Other Information**

**HMIS® ratings**

Health: 2\*  
Flammability: 4  
Physical hazard: 0

**Prepared by**

Regulatory Compliance

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Issue date**

02-May-2007

2-13