

Safety Data Sheet



CJ CHEMICALS
SETTING THE INDUSTRY STANDARD FOR CUSTOMER SERVICE

SECTION 1: Identification of the substance/mixture and the company/undertaking

1.1 Production identifiers

Product name : SOLVENT 200
Brand : CJ Chemicals LLC

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : CJ Chemicals LLC
3469 E Grand River Rd #112
Howell, MI 48843
United States

Telephone : +1 (888) 274-1044

1.4 Emergency Telephone

Emergency Phone # : 1-800-424-9300 CHEMTREC (USA)
1-703-527-3887 CHEMTREC (international) 24 hours/day; 7 days/week

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification (GHS-US)

Carcinogenicity Category 2

Specific target organ toxicity (single exposure) Category 3 - Narcotic effects Specific target organ toxicity (single exposure)

Category 3 - Respiratory irritation Specific target organ toxicity (single exposure) Category 1

Specific target organ toxicity (single exposure) Category 2

Specific target organ toxicity (repeated exposure) Category 1

Specific target organ toxicity (repeated exposure) Category 2

Aspiration hazard Category 1

Signal word (GHS-US)

DANGER

Hazard statements (GHS-US)

May be fatal if swallowed and enters airways May cause respiratory irritation

May cause drowsiness or dizziness Suspected of causing cancer

Causes damage to organs (blood)

May cause damage to organs (eye)

Causes damage to organs (eye) through prolonged or repeated exposure

May cause damage to organs (lung, nose) through prolonged or repeated exposure

Precautionary statements (GHS-US)

: Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe gas, mist, spray, vapors.

Wash hands, forearms and face thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear eye protection, flame retardant protective clothing, impermeable protective gloves.

If swallowed: Immediately call doctor, poison center.

Do NOT induce vomiting.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Specific treatment (see Section 4.1 of SDS or information on this label).

If exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified
Other hazards not contributing to the classification
Product can accumulate electrostatic charges that may cause fire by electrical discharges.

Additional information
Based on conditions common to industrial workplace use of this product
May cause mild eye irritation.
May cause mild skin irritation.

3. COMPOSITION

MIXTURE

| NAME | CAS NO | % BY WEIGHT |
|--|---------|-------------|
| Aromatic Hydrocarbons (C11-C14) | - | 50-85 |
| Naphthalene | 91-20-3 | 5-20 |
| Aromatic Hydrocarbons (C10) not including naphthalene | - | 5-15 |
| Aromatic Hydrocarbons (C15-C16) | - | 5-15 |

4. FIRST AID MEASURES

Description of first aid measures
First-aid measures general
Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
Suspected of causing cancer.

First-aid measures after inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If breathing stops, give artificial respiration.

First-aid measures after skin contact
Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact
Rinse immediately with plenty of water. Obtain medical attention if irritation persists.

First-aid measures after ingestion
Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

Most important symptoms and effects, both acute and delayed
Symptoms/injuries after inhalation:
May cause respiratory irritation.

Symptoms/injuries after ingestion:
May be fatal if swallowed and enters airways.

Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media
Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media :
Do not use a heavy water stream.

Special hazards arising from the chemical
Fire hazard
Combustible liquid.

Explosion hazard
May form flammable/explosive vapor-air mixture.

Advice for firefighters
Firefighting instructions
Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting
Do not enter fire area without proper protective equipment, including respiratory protection

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Emergency procedures for non-emergency personnel:
Evacuate unnecessary personnel

Emergency procedures for emergency responders:
Ventilate area

Methods and material for containment and cleaning up
For containment
Dike for recovery or absorb with appropriate material. Do not contaminate ground and surface water

Methods for cleaning up
Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

7. HANDLING AND STORAGE

Precautions for safe handling
Additional hazards when processed
Handle empty containers with care because residual vapors are flammable. Keep away from heat, sparks, open flames, hot surfaces. -
No smoking.

Precautions for safe handling
Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No bare lights. No smoking. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing vapors, mist. Use only outdoors or in a well-ventilated area.

Conditions for safe storage, including any incompatibilities
Technical measures
Proper grounding procedures to avoid static electricity should be followed. All efforts should be made to prevent any leaks or spills. Storage tanks should be engineered to prevent contact with water resources, as this material could contaminate the water resources. Surface spills can reach groundwater through porous soil or cracked surfaces. The storage tanks should be monitored regularly for leaks. Where spills or leaks are possible, a comprehensive response plan should be developed and implemented.

Storage conditions
Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, flames, heat sources, sparks. Keep in fireproof place. Keep container tightly closed.

Incompatible products
Strong bases. Strong acids.

Incompatible materials
Sources of ignition. Direct sunlight. Heat sources.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Limits

| | | |
|-----------------------|-------------------------------------|----------------------|
| Naphthalene (91-20-3) | | |
| USA ACGIH | ACGIH TWA (ppm) | 10 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 15 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 50 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 10 ppm |

EXPOSURE CONTROLS

Appropriate engineering controls
Ensure adequate ventilation

Personal protective equipment
Avoid all unnecessary exposure.

Hand Protection

Impermeable protective gloves. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye Protection

Chemical goggles or safety glasses.

Skin and body protection

Wear fire/flammable resistant/retardant clothing.

Respiratory protection

An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits.

Other Information

Do not eat, drink or smoke during use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | |
|----------------|-------------------|
| Physical state | Liquid |
| Color | Straw |
| Odor | Characteristic |
| Odor threshold | No data available |
| pH | Not applicable |

| | |
|---|--------------------|
| Relative evaporation rate (butyl acetate=1) | No data available |
| Melting point | No data available |
| Freezing point | No data available |
| Boiling point | 217 - 296° C |
| Flash point | >=95°C Closed cup |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Flammability (solid, gas) | No data available |
| Vapor pressure | <1 mm Hg @20°C |
| Relative vapor density at 20 °C | 4.5 Air = 1 |
| Relative density | 0.97 - 1.01 |
| Solubility | Water - Negligible |
| Log Kow | No data available |
| Viscosity, kinematic | <20 cSt at 40°C |
| Viscosity, dynamic | No data available |
| Explosive limits | No data available |
| Other information | |
| VOC content | 100% |

10. STABILITY AND REACTIVITY

Reactivity

Combustible liquid.

Chemical stability

Stable at ambient temperature and under normal conditions of use.

Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products formed under fire conditions: carbon monoxide, carbon dioxide, toxic fumes.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Likely routes of exposure

Inhalation. Ingestion. Skin and eye contact.

Acute toxicity
Not classified

Aromatic 200 (64742-94-5)
LD50 oral rat > 2000 mg/kg
LD50 dermal rat > 5000 mg/kg
LC50 inhalation rat > 5 mg/l/4h Inhalation form: aerosol (mist)

Skin corrosion/irritation not classified

Serious eye damage/irritation not classified

Respiratory or skin sensitization not classified
Germ cell mutagenicity not classified
Carcinogenicity not classified

Naphthalene (91-20-3)
IARC group 2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status 2 - Reasonably anticipated to be Human Carcinogen

Reproductive toxicity not classified

Specific target organ toxicity (single exposure) May cause drowsiness or dizziness. May cause respiratory irritation. Causes damage to organs (blood). May cause damage to organs (eye).

Specific target organ toxicity (repeated exposure) Causes damage to organs (eye) through prolonged or repeated exposure. May cause damage to organs (lung, nose) through prolonged or repeated exposure.

Aromatic 200 (64742-94-5)

NOAEL (oral, rat, 90 days) 300 mg/kg body weight/day

Aspiration Hazard May be fatal if swallowed and enters airways

Potential Adverse human health effects and symptoms Irritation of the respiratory tract. Drowsiness. Dizziness

12. ECOLOGICAL INFORMATION

Toxicity

Ecology - General

Constituents of this type of aromatic solvent are expected to partition between air, water and soil

Persistence and degradability

Aromatic 200 (64742-94-5)

Persistence and degradability

Constituents of this type of aromatic solvent are expected to biodegrade

Bioaccumulative potential: Not established

Mobility in soil

No additional information available

Other adverse effects

Other information: Avoid release to the environment

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste disposal recommendations

Dispose in a safe manner in accordance with local/national regulations. Dispose of contents and container in accordance with all local, regional, national and international regulations.

Additional information

Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials

Avoid release to the environment. Hazardous waste due to toxicity.

14. TRANSPORT INFORMATION

US Transport (DOT) for Bulk Shipments (Non-Bulk Shipments May Differ)

Not a DOT controlled material

In accordance with the definition in 49 CFR § 171.8, a hazardous substance does not include petroleum, including crude oil or any fraction thereof which is not other specifically listed or designated as such in Appendix A to 49 CFR § 172.101. Therefore, this product does not require a RQ designation.

Transport by sea (IMDG)

Not an IMDG controlled material

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Product name: Poly(2+)cyclic aromatics

Pollution category: X

Ship type: 2

Cargo name listed in 46 CFR 30.25, Table 30.25-1

Poly(2+)cyclic aromatics

Cargo name listed in 46 CFR 153, Table 1

Poly(2+)cyclic aromatics

Air transport (IATA)

Not an IATA controlled material Date of issue: 05/07/2015

15. REGULATORY INFORMATION

US Federal regulations

Aromatic 200

This product is a substance under TSCA (CAS No. 64742-94-5; Solvent naphtha (petroleum), heavy arom.).

SARA 313

This product contains chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372

SARA 313 Components:

--- ---

Naphthalene

CAS No.: 91-20-3

Conc: 5 - 20%

SARA Section 311/312 Hazard Classes

Acute health hazard Fire hazard

Chronic health hazard

International regulations

CANADA

Aromatic 200 (64742-94-5)

WHMIS Classification

Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

National inventories

solvent naphtha (petroleum), heavy arom (64742-94-5)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)

Listed on the China Inventory of Existing Chemical Substances (IECSC)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on the Japanese

ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS)

US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity, not limited to any that may be listed below.

Naphthalene (91-20-3)

| | |
|---|------------|
| U.S. - California - Proposition 65 - Carcinogens List | Yes |
| U.S. - California - Proposition 65 - Developmental Toxicity | No |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Female | No |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No |
| No significance risk level (NSRL) | 5.8 µg/day |

16. OTHER INFORMATION

NFPA (National Fire Protection Association)

| | |
|--------------------|---|
| NFPA health hazard | 1 |
| NFPA fire hazard | 1 |
| NFPA reactivity | 0 |

HMIS III Rating

| | |
|---------------------|---------------|
| Health | 1* |
| Flammability | 1 |
| Physical Hazard | 0 |
| Personal Protection | see section 8 |

Danger

May be fatal if swallowed and enters airways

May cause respiratory irritation

May cause drowsiness or dizziness

Suspected of causing cancer

Causes damage to organs (blood)

May cause damage to organs (eye)

Causes damage to organs (eye) through prolonged or repeated exposure

May cause damage to organs (lung, nose) through prolonged or repeated exposure

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe gas, mist, spray, vapors.

Wash hands, forearms and face thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear eye protection, flame retardant protective clothing, impermeable protective gloves.

If swallowed: Immediately call doctor, poison center.

Do NOT induce vomiting.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Specific treatment (see Section 4.1 of SDS or information on this label).

If exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental Information: Other hazards not contributing to the classification

Product can accumulate electrostatic charges that may cause fire by electrical discharges.

Date Created: 5/12/2015

Date Updated: 5/14/2015