

## **Safety Data Sheet (SDS)**

According to Regulation (EC) No. 2020/878

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

#### 1.1. Product identifier

Product name: J-150

REACH Registration No.: Not available

UFI Code: Not available

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

- 1) Relevant identified uses: Raw materials and intermediates
- 2) Uses advised against: Prohibition of use other than recommended use
- 3) Reason why uses advised against: Not available

#### 1.3. Details of the supplier of the safety data sheet

##### 1.3.1 Manufacturer

- Manufacturer name: HD Hyundai Chemical
- Street address/P.O. Box: 181, Pyeongsin 2-ro, Daesan-eup, Seosan-si, Chungcheongnam-do, Republic of Korea
- Country ID/Postcode/Place: 31902
- Telephone number (if possible, indicate telefax) : +82-41-924-1119
- E-mail address of competent person responsible for the SDS : Not available
- National contact: +82-41-924-1119
- Homepage: <https://www.hd-hyundaichemical.co.kr>

##### 1.3.2 Supplier

- Supplier name: Lotte Chemical
- Street address/P.O. Box: 300, Olympic-ro, Songpa-gu, Seoul, Republic of Korea
- Country ID/Postcode/Place: 05551
- Telephone number (if possible, indicate telefax): +82-2-829-4114
- E-mail address of competent person responsible for the SDS: Not available
- National contact: +82-2-829-4114
- Homepage: [www.lottechem.com](http://www.lottechem.com)

#### 1.4. Emergency telephone number :

- Opening hours : 09:00~18:00, Monday-Friday (except public holidays)
- Other comments (e.g. language(s) of the phone service) : +82-41-924-1119

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

##### 2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP):

- 1) Physical-chemical Hazards: Not classified
- 2) Health Hazards: Not classified
- 3) Environmental Hazards: Not classified

##### 2.1.2 Additional information: For full text of Hazard- and EU Hazard statements: see SECTION 16

## 2.2. Label elements

### 2.2.1 Labelling according to Regulation (EC) No 1272/2008 [CLP]:

- 1) Hazard pictograms: Not applicable
- 2) Signal Word: Not applicable
- 3) Hazard Statements: Not applicable
- 4) Precautionary Statements
  - Prevention: Not applicable
  - Response: Not applicable
  - Storage: Not applicable
  - Disposal: Not applicable
- 5) Supplemental Hazard information (EU): Not applicable

### 2.3. Other hazards:

- According to Annex XIII, the substance does not meet PBT or vPvB criteria.
- According to Regulation (EU) 2017/2100 and 2018/605, the substance does not affect to endocrine system.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances: Mixtures

### 3.2 Mixtures:

\* Substances in ingredients not listed are not classified as hazardous or dangerous

| Substance Name | CAS No.<br>EC No.      | Classification<br>according to<br>Regulation (EC) No<br>1278/2008 (CLP) | SCL / M-factor / ATE                                                        | %<br>[Weight] |
|----------------|------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------|
| Polypropylene  | 9003-07-0<br>618-352-4 | Not Classified                                                          | ATE (oral): N/A<br>ATE (dermal): N/A<br>ATE (inhalation,<br>Dust/Mist): N/A | 95~100        |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### 4.1.1 General information:

- No specific first aid measures are required.
- If symptoms occur following exposure, seek medical advice.

#### 4.1.2. Following inhalation:

- Get emergency medical treatment.
- Move to fresh air.
- Give artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.

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#### 4.1.3. Following skin contact:

- In case of contact with substance, immediately flush skin with running water for at least 20 minutes.
- Remove and isolate contaminated clothing and shoes.
- Wash clothes and shoes thoroughly before reuse.
- Get medical attention immediately.

#### 4.1.4. Following eye contact:

- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes.
- Get medical attention immediately.

#### 4.1.5. Following ingestion:

- Do not give anything by mouth to an unconscious person.
- Get medical attention immediately.

#### 4.1.6. Self-protection of the first aider

- First aiders should ensure adequate personal protection.
- No special protective measures are required.

### 4.2. Most important symptoms and effects, both acute and delayed

#### 4.2.1. Over-exposure signs/symptoms:

- Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. Further symptoms are possible Indication of any immediate medical attention and special treatment needed.

#### 4.2.2. Potential acute health effects: Not available

### 4.3. Indication of any immediate medical attention and special treatment needed

#### 4.3.1. Notes for the doctor:

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

#### 4.3.2. Special treatment: No specific treatment.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

#### 5.1.1. Suitable extinguishing media:

- Small fires: Dry sand, dry chemical, alcohol-resistant foam, water spray, regular foam, CO<sub>2</sub> (suitable extinguishing agents)
  - Large fires: Water spray/fog, regular foam (suitable extinguishing agents)
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5.1.2. Unsuitable extinguishing media: High-pressure water jet (unsuitable extinguishing agent)

5.2. Special hazards arising from the substance or mixture

- May ignite from heat, friction or contamination.
- Containers may explode when heated.
- Some may burn but do not ignite easily.
- Fire may produce irritating and/or toxic gases.
- Inhalation of material may be harmful.
- Some liquids may produce vapors that can cause dizziness and suffocation.

5.3. Advice for firefighters

- Move containers from fire area if you can do it without risk.
- Substance may be transported hot.
- Leakage may cause contamination.
- Dike fire-control water for later disposal; do not scatter the material.
- Move containers from fire area if you can do it without risk.
- Fire involving Tanks: Cool containers with plenty of water until well after fire is out.
- Fire involving Tanks: Withdraw immediately in case of high-pitched sound from pressure relief devices or discoloration of tank.
- Fire involving Tanks: ALWAYS stay away from tanks engulfed in fire.

## **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

- 1) Protective equipment: Wear appropriate protective clothing.
- 2) Emergency procedures:

- Eliminate all ignition sources.
- Stop leak if you can do it without risk.
- Please note that materials and conditions to be avoided.
- Ventilate the contaminated area.
- Do not touch or walk through spilled material.
- Prevent dust cloud.

6.1.2 For emergency responders:

- Wear an appropriate NIOSH/MSHA approved respirator if vapour is generated.
- Wear appropriate respirator when ventilation is inadequate.

6.2. Environmental precautions:

- Prevent entry into waterways, sewers, basements or confined areas.

6.3. Methods and material for containment and cleaning up

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6.3.1 For containment:

- In case of small leak, wash the contaminated area with plenty of water.

6.3.2 For cleaning up

- Small Spill: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
- Large Spill: Dike far ahead of liquid spill for later disposal.
- Use a clean shovel to scoop the spill into a clean, dry container, close loosely and move the container away from the spill area.
- In case of powder leakage, cover with a plastic sheet to prevent spread and keep in dry condition.

6.3.3 Other information:

- Dispose of via a licensed waste disposal contractor.

6.4. Reference to other sections:

- Section 8 (Protective equipment), Section 13 (Disposal instructions)

## **SECTION 7: Handling and storage**

7.1. Precautions for safe handling

7.1.1. Protective measures:

- Please note that materials and conditions to be avoided.
- Work with reference to engineering controls and personal protective equipment.
- CAUTION: High temperature.

7.1.2. Measures to prevent fire: Not available

7.1.3. Measures to prevent aerosol and dust generation: Not available

7.1.4. Measures to protect the environment: Avoid release to the environment.

7.1.5. Advice on general occupational hygiene:

- Good ventilation of the workplace is required.
- Do not eat, drink and smoke in work areas.
- Wash hands after use.
- Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibility:

7.2.1. Technical measures and storage conditions:

- Store in a closed container.
- Store in a cool, dry place.
- Please note that materials and conditions to be avoided.

7.2.2. Packaging materials: Not available

7.2.3. Requirements for storage rooms and vessels: Not available

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#### 7.2.4. Further information on storage conditions:

- Containers should be stored tightly sealed in a dry place.
- Store in a closed container to prevent contamination.
- Store at room temperature

#### 7.3. Specific end use(s)

7.3.1 Recommendations: Not available

7.3.2 Industrial sector specific solutions: Not available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 Occupational exposure limits:

| Chemical Name | ACGIH          | Biological limit values | Exposure limits at intended use |
|---------------|----------------|-------------------------|---------------------------------|
| Polypropylene | Not applicable | Not applicable          | Not applicable                  |

##### 8.1.2 DNELs/PNECs

| DNELs                              |                    |                        |                       |                          |                     |                        |                       |                          |
|------------------------------------|--------------------|------------------------|-----------------------|--------------------------|---------------------|------------------------|-----------------------|--------------------------|
|                                    | Workers            |                        |                       |                          | Consumers           |                        |                       |                          |
| Route of exposure                  | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic | Acute effects local | Acute effects systemic | Chronic effects local | Chronic effects systemic |
| Oral                               | -                  | -                      | -                     | -                        | -                   | -                      | -                     | -                        |
| Inhalation                         | -                  | -                      | -                     | -                        | -                   | -                      | -                     | -                        |
| Dermal                             | -                  | -                      | -                     | -                        | -                   | -                      | -                     | --                       |
| PNECs                              |                    |                        |                       |                          |                     |                        |                       |                          |
| Environmental protection target    |                    |                        |                       | -                        |                     |                        |                       |                          |
| Fresh water                        |                    |                        |                       | -                        |                     |                        |                       |                          |
| Freshwater sediments               |                    |                        |                       | -                        |                     |                        |                       |                          |
| Marine water                       |                    |                        |                       | -                        |                     |                        |                       |                          |
| Marine sediments                   |                    |                        |                       | -                        |                     |                        |                       |                          |
| Food chain                         |                    |                        |                       | -                        |                     |                        |                       |                          |
| Microorganisms in sewage treatment |                    |                        |                       | -                        |                     |                        |                       |                          |
| Soil (agricultural)                |                    |                        |                       | -                        |                     |                        |                       |                          |
| Air                                |                    |                        |                       | -                        |                     |                        |                       |                          |

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## 8.2. Exposure controls

### 8.2.1 Appropriate engineering controls

#### 8.2.1.1 Substance/mixture related measures to prevent exposure during identified uses:

No official Occupational Exposure Limit has yet been established.

#### 8.2.1.2 Structural measures to prevent exposure: No specific measures

#### 8.2.1.3 Organisational measures to prevent exposure: No specific measures

#### 8.2.1.4 Technical measures to prevent exposure:

- Handle in accordance with good industrial hygiene and safety practice.
- Facilities for storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
- Do not allow dust to become airborne.
- Provide general and local exhaust ventilation to keep vapor exposure below recommended limits.

### 8.2.2 Personal protection equipment

#### 8.2.2.1 Eye and face protection:

- Wear breathable goggles to protect your eyes against particulate matter that may irritate your eyes or cause other health problems.
- Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

#### 8.2.2.2 Skin protection

##### 1) Hand protection:

- Wear protective gloves of appropriate material considering the physical and chemical properties of the chemical.

##### 2) Other skin protection:

- Wear protective clothing of appropriate material considering the physical and chemical properties of the chemical.

#### 8.2.2.3 Respiratory protection:

- Use certified respiratory protection suitable for the physical and chemical properties of the particulate matter to which you are exposed.
  - In case exposed to particulate material, the respiratory protective equipment as follow are recommended. ;facepiece filtering respirator or air-purifying respirator, high-efficiency particulate air(HEPA) filter media or respirator equipped with powered fan, filter media of use (dust, mist, fume)
  - In lack of oxygen (< 19.6%), wear the supplied-air respirator or self-contained oxygen breathing apparatus.
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8.2.2.4 Thermal hazards: Not available

8.2.3 Environmental exposure controls

8.2.3.1 Substance/mixture related measures to prevent exposure:

- Avoid discharge into the environment.
- According to local regulations, Federal and official regulations.

8.2.3.2 Instruction measures to prevent exposure: No specific measures

8.2.3.3 Organisational measures to prevent exposure: No specific measures

8.2.3.4 Technical measures to prevent exposure: No specific measures

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- A. Physical state: Solid (Ref: HSDB)
- B. Color: Translucent white (Ref: HSDB)
- C. Odour: Odorless (Ref: HSDB)
- D. Melting point/Freezing point: 157 °C (Ref: Chemical book)
- E. Initial boiling point and boiling range: 443.14 °C (Ref: Chemical book)
- F. Flammability: Not available
- G. Upper/lower flammability or explosive limits: Not available
- H. Flash point: Not available
- I. Auto-ignition temperature: Not available
- J. Decomposition temperature: Not available
- K. pH: Not available
- L. Kinematic viscosity(mm<sup>2</sup>/s): Not available
- M. Solubility(ies): Insoluble in water (Ref: CAMEO)
- N. Partition Coefficient(n-Octanol/Water): log Kow= 17.21 (Estimated) (Ref: EPI SUITE)
- O. Vapor pressure: Not available
- P. Density/Relative density: 0.9g/mL at 25 °C (Ref: Chemical book)
- Q. Relative Vapor density: Not available
- R. Particle characteristics: Not available
- S. Molecular weight: 354.6

### 9.2. Other information

- 9.2.1. Information with regard to physical hazard classes: Not available
- 9.2.2. Other safety characteristics: Not available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity:

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- Containers may explode when heated.
  - Some may burn but do not ignite easily.

10.2. Chemical stability:

- Stable at normal temperature and pressure.

10.3. Possibility of hazardous reactions:

- Fire may produce irritating and/or toxic gases.
- Inhalation of material may be harmful.
- Some liquids may produce vapors that can cause dizziness and suffocation.

10.4. Conditions to avoid:

- Ignition source (heat, spark, flame, etc.).

10.5. Incompatible materials:

- Combustible material
- Irritating and/or toxic gas.

10.6. Hazardous decomposition products: Not available

## **SECTION 11: Toxicological information**

11.1. Information on toxicological effects

11.1.1 Acute toxicity

- Oral: Not available
- Dermal: Not available
- Inhalation (Dust/Mist): Not available

11.1.2 Skin corrosion/irritation: Not available

11.1.3 Serious eye damage/irritation: Not available

11.1.4 Respiratory or skin sensitization:

Respiratory sensitization: Not available

Skin sensitization: Not available

11.1.5 Germ cell mutagenicity: Not available

- *In vitro* - Not available
- *In vivo* - Not available

11.1.6 Carcinogenicity: IACR - Group 3, ACGIH, OSHA, NTP, EU CLP - Not  
carcinogenicity (Ref: IARC, ACGIH, OSHA, NTP, EU CLP)

11.1.7 Reproductive toxicity: Not available

11.1.8 STOT-single exposure: Not available

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11.1.9 STOT-repeated exposure: Not available

11.1.10 Aspiration hazard: Not available

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties: According to Regulation(EU) 2017/2100 and 2018/605, the substance not affects to endocrine system.

11.2.2 Other information: No other hazards have been identified

## **ECTION 12: Ecological information**

12.1. Toxicity:

Acute (short-term) toxicity: Not available

Chronic (long-term) toxicity: Not available

Fish: Not available

Invertebrates: Not available

Aquatic plants: Not available

12.2. Persistence and degradability:

12.2.1. Abiotic Degradation: Not available

12.2.2. Physical- and photo-chemical elimination: Not available

12.2.3. Biodegradation: Not available

12.3. Bioaccumulative potential:

12.3.1. Partition coefficient n-octanol /water (log Kow): Not available

12.3.2. Bioconcentration factor (BCF): Not available

12.4. Mobility in soil:

12.4.1. Known or predicted distribution to environmental compartments: Not available

12.4.2. Surface tension: Not available

12.4.3. Adsorption/Desorption: Not available

12.5. Results of PBT and vPvB assessment:

- This substance does not contain any substances that are assessed to be a PBT or a vPvB.

12.6. Endocrine disrupting properties

- According to Regulation (EU) 2017/2100 and 2018/605, the substance not affects to endocrine system.

12.7. Other adverse effects: Ozone layer hazard

- Not applicable

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12.8. Additional information:

- Not available

## **SECTION 13: Disposal considerations**

13.1. Waste treatment methods

13.1.1 Product / Packaging disposal

- Empty containers should be taken to an approved waste handling site for recycling or disposal.

1) Waste codes / waste designations according to LoW:

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13.1.2 Waste treatment-relevant information

- Dispose of in accordance with all applicable local and national regulations.
- Contaminated containers must not be treated as household waste.
- Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate.

13.1.3 Sewage disposal-relevant information:

- Release to the environment or sewage system is prohibited.

13.1.4 Other disposal recommendations:

- Finish cleaning by spreading Water on the contaminated surface and dispose of according to local and regional authority requirements.

## **SECTION 14: Transport information**

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name: Not applicable

14.3. Transport hazard class(es): Not applicable

14.4. Packing group: Not applicable

14.5. Environmental hazards: Not applicable

14.6. Special precautions for user:

- Emergency measures in case of fire: Not applicable
- Emergency measures in the effluent: Not applicable

14.7. Maritime transport in bulk according to IMO Instruments: Not available

## **SECTION 15: Regulatory information**

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1 EU Regulation (EC) No. 1907/2006(REACH)/ Authorisations and/or restrictions on use:

- Authorisations (Annex XIV): Not applicable
- Restrictions on use (Annex XVII): Not applicable

15.1.2 Other EU regulations

- EU Seveso III Directive (2012/18/EU) - Qualifying Quantities of Dangerous Substances: Not applicable
- EU Persistent Organic Pollutants (850/2004): Not applicable
- EU Paints, Varnishes, Vehicle Refinishing Products (2004/42/CE) – VOCs: Not applicable
- EU Industrial Emissions (2010/75/EU) - Integrated Pollution Prevention and Control Directive – List of Polluting Substances: Not applicable
- EU Fluorinated Gases (517/2014) - Global Warming Potential: Not applicable
- EU Substances Depleting the Ozone layer (1005/2009): Not applicable
- EU Export and Import Restrictions (649/2012) - Chemicals and Articles Subject to Export Ban: Not applicable
- Germany VwVwS Annex reference: Non-hazardous to water

15.2. Chemical safety assessment

- No Chemical Safety Assessment has been carried out for this substance by the Supplier.

## **SECTION 16: Other information**

16.1. Indication of changes / Date of issue

- Date of issue: 23-12-2025
- Indication of changes: Rev. 0

16.2. Abbreviations and acronyms

- ECHA: European Chemicals Agency
  - EU CLP: EU Regulation 1272/2008 on the classification, labelling and packaging of chemicals and mixtures)
  - GLP: Good Laboratory Practice
  - NFPA: National Fire Protection Association
  - EL50: 50% Effect Loading dose
  - LC50: Lethal Concentration 50% kill
  - LD50: Lethal Dose 50% kill
  - LL50: Lethal loading rate 50% kill
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- TWA: Time weight Average

#### 16.3. Key literature references and sources for data

- ACGIH
- CAMEO Chemicals NOAA
- ChemIDplus
- ECHA
- ECOSAR
- Emergency response guide book
- EPI Suite
- HSDB
- HPVIS
- IARC
- ICSC
- INCHEM
- IPCS
- NITE
- OECD SIDS
- PubChem
- Recommendations on the transport of dangerous goods

#### 16.4. Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| Name          | Classification according to Regulation (EC) No. 1272/2008 | Classification procedure |
|---------------|-----------------------------------------------------------|--------------------------|
| Polypropylene | -                                                         | -                        |