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SECTION 1: IDENTIFICATION OF THE SUBSTANDE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1.PRODUCT IDENTIFIER

Product name: FSHP8015-1

1.2.RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Relevant identified uses:

48.Others (Raw material of polyethylene product goods)

Used advised against:

1.3. SUPPLIER INFORMATION

Company: TWO H Chem Ltd.

Address: 234 Chungmin-Ro, Goesan-Eup, Goesan-Gun, Chungcheongbuk-Do, Korea

Emergency phone: 82-43-832-6760 Other calls: 82-70-8255-7369

SECTION 2: HAZARDS IDENTIFICATION

2.1. HAZARD CLASSIFICATION

No data available

2.2. ALLOCATION LABEL ELEMENTS

Not available

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Hazard pictograms:

Signal word: NONE

Hazard statement: No data available Precautionary statements: No data available

2.3. OTHER HAZARDS

PRODUCT NFPA Level HEALTH: 1, FIRE: 1, REACTIVE: 0

(* 0 = Stable, 1 = Low, 2 = Medium, 3 = High, 4 = Very high)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. INGREDIENTS

Components	Common name	CAS No.	%WT
Polyethylene	Polyethylene	9002-88-4	> 99.9

SECTION 4: FIRST AID MEASURES

4.1. GENERAL ADVICE:

Following eye contact: Get medical aid immediately.

In case of contact with material, immediately flush eyes with running water for at

least 15 minutes.

Following skin contact: Launder contaminated clothing and shoes before re-use

Remove and isolate contaminated clothing and shoes.

In case of contact with material, immediately flush skin with running water for at

least 15 minutes.

Get medical aid immediately.



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Following inhalation: Seek immediate medical assistance

Administer oxygen if breathing is difficult.

Give artificial respiration if victim is not breathing.

Move to fresh air.

Following ingestion: Get medical aid immediately

If unconscious but breathing, never give anything by mouth.

Advice to physician: Do not apply drugs of the adrenaline ephedrine group.

Ensure that medical personnel are aware of the material(s) involved and take

precautions to protect themselves.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. SUITABLE AND UNSUITABLE EXTINGUISHING MEDIA

Suitable extinguishing media: Large fire; Water spray/fog, regular foam (Suitable extinguishing media)

Small fire; Dry sand, dry chemical, alcohol-resistant foam, water spray, regular

foam, CO2.

Unsuitable extinguishing media: High pressure water (Unsuitable extinguishing media).

5.2. SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Pyrolytic product: No data available

Risk of fire and explosion: Containers may explode when heated.

Fire may produce irritating and/or toxic gases May ignited from heat, friction or contamination.

Some may burn but none ignite readily.

Other Some liquids produce vapors that may cause dizziness or suffocation.

May cause toxic effects if inhaled.

5.3. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Dike fire-control water for later disposal; Do not scatter the material.

Fire involving tanks; Always stay away from tanks engulfed in fire.

Fire involving tanks; Cool containers with flooding quantities of water until well after fire is out.

Fire involving tanks; Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.

Move containers from fire area if you can do it without risk.

Runoff may cause pollution.

Substance may be transported hot.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. HEALTH CON CONSIDERATIONS AND PROTECTIVE EQUIPMENT

Do not enter areas which have more than 23.5% oxygen in the atmosphere, without respirator or air supplied mask.

Prevent dust cloud.

Do not touch or walk through spilled material.

Ventilate the contaminated area.

Please note that materials and conditions to be avoided.

Stop leak if you can do it without risk.

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

6.2. ENVIRONMENTAL PRECAUTIONS

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

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6.3. FOR CLEANING UP

Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.

With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.

Large spill: Dike far ahead of liquid spill for later disposal.

Small spill: Absorb with earth, sand or other non-combustible material and transfer to containers for

later disposal.

Small spill: Flush area with flooding quantities of water.

SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Wear an appropriate Personal protection. (See Exposure Controls/Personal Protection section.)

Caution: Dangerous fire hazard when exposed to heat, or flame, sparks.

Avoid any skin and eye contact when insert undiluted solution. Wash, thoroughly after handling,

Use adequate machine for prevention when package handling.

Do not spray. Can be evaporate quickly if sprayed.

Check oxygen content before entering area.

Do not spray. This material does not easily evaporated. But can be reach toxic concentration quickly in air if sprayed.

Keep under 20℃. This material evaporate slowly at 20℃ and reach toxic concentration.

Do not spray. Can be reach toxic concentration quickly in air if sprayed.

CAUTION: Can be reach toxic concentration quickly in air if released.

CAUTION: Vapors displace air and can cause asphyxiation in confined spaces if released material.

High concentration of this gas will create an oxygen-deficient atmosphere, creating the risk of asphyxiation. Check oxygen content before entering area.

CAUTION: This material does not contain oxygen and may cause asphyxia if released in a confined area.

CAUTION: High temperature.

Handling refer to engineering control/personal protection section.

Wash, thoroughly after handling.

Please note that materials and conditions to be avoided.

7.2. CONDITIONS FOR SAFE STORAGE (INCLUDING ANY INCOMPATIBILITIES)

Drum Handling: Must work at safe place., Loading more than 3 stack is prohibited.

Choose a place that can be protected from strong oxidizers and acid.

Store in a cool/low-temperature, well-ventilated (dry) place (away from heat and ignition sources)

Store containers: AVOID the place where can be damage and contamination.

Please note that materials and conditions to be avoided.

Store in a dry place. Store in a closed container.

Store in a closed container.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CHEMICAL EXPOSURE LIMITS, BIOLOGICAL EXPOSURE STANDARD

Components	Occupational exposure limits	ACGIH	Biological standard
Polyethylene	TWA: Not applicable STEL: Not applicable	TWA: Not applicable STEL: Not applicable	Not applicable

8.2. APPROPRIATE ENGINEERING CONTROLS

Make sure you have the right exhaust and ventilation in the workplace.

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

8.3. PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection

- If there is a direct contact or exposure, wear a certified appropriate respiratory protection.

Eye protection

- Provide emergency showers and eyewash.
- Wear an appropriate security diameter.

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Hand protection

- Wear safety gloves for chemicals.

Body protection

- Wear a protective gloves/protective clothes/security diameter/security surface/earplugs.
- Wear suitable protective clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Naturally white powder

ODOR: No data available

PHYSICAL STATE: Solid (powder)

pH: No data available

BOILING POINT: No data available

MELTING POINT: 126- 138°C

VAPOR PRESSURE (mmHg): No data available

VAPOR DENSITY (AIR = 1): No data available

EVAPORATION RATE: No data available

FLAMMABILITY (SOLID, GAS): No data available

UPPER / LOWER EXPLOSIVE LIMITS: No data available

SOLUBILITY IN WATER: Insoluble

SPECIFIC GRAVITY ($H_2O = 1$): 0.941-0.965

AUTO IGNITION TEMPERATURE: > 350°C

DEGRADATION TEMPERATURE: No data available VISCOSITY: No data available

MOLECULAR WEIGHT: No data available

SECTION 10: STABILITY AND REACTIVITY

10.1. STABILITY AND HAZARDOUS REACTIVITY

Some liquids produce vapors that may cause dizziness or suffocation.

May cause toxic effects if inhaled.

Fire may produce irritating and/or toxic gases.

Some may burn but none ignite readily.

Containers may explode when heated.

Stable under normal temperatures and pressures.

10.2. CONDITIONS TO AVOID

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

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10.3. INCOMPATIBLES MATERIAL

Combustibles. Irritating and/or toxic gas.

10.4. HAZARDOUS DECOMPOSITION PRODUCT

No data available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. EXPOSURES ROUTE INFORMATION

Inhalation

- After inhalation: No data

Skin contact

- Following skin contact: No data

Eye contact

No data - After eye contact:

Ingestion

- After ingestion: No data

PRODUCT:

11.2. HEALTH HAZARD INFORMATION

Acute toxicity

- Acute toxicity(Oral) PRODUCT: Not classified

Polyethylene: LD50> 8000 mg/kg experimental species: Rat

Not classified

- Acute toxicity(Dermal) Polyethylene: No data available - Acute toxicity(Inhalation:Gases) PRODUCT: Not classified

Polyethylene: No data available - Acute toxicity(Inhalation:Vapours) PRODUCT: Not classified Polyethylene: No data available

PRODUCT: - Acute toxicity(Inhalation:Dust/mist) Not classified

Polyethylene: LC50 75.5 mg/L 30min experimental species: Rat

Skin corrosion/irritation PRODUCT: Not classified Polyethylene: No data available

Serious eye damage/eye irritation PRODUCT: Not classified Polyethylene: No data available

Respiratory sensitization PRODUCT: Not classified Polyethylene: No data available

Skin sensitization PRODUCT: Not classified

Polyethylene: No data available Carcinogenicity PRODUCT: Not classified

Polyethylene: 2.44 (IARC), Source: IARC

Germ cell mutagenicity PRODUCT: Not classified Polyethylene: No data available

PRODUCT: Reproductive toxicity Not classified Polyethylene: No data available

PRODUCT: Not classified Specific target organ toxicity single exposure Polyethylene: No data available

Specific target organ toxicity repeated exposure PRODUCT: Not classified Polyethylene: No data available



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Aspiration hazard PRODUCT: Not classified Polyethylene: No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1. AQUATIC TOXICITY

Fish>PRODUCT: Not classified Polyethylene: No data available

Crustacea>PRODUCT: Not classified Polyethylene: No data available

Aquatic algae>PRODUCT:

Polyethylene:

Not classified
No data available

12.2. PERSISTENCE AND DEGRADABILITY

n-octanol water partition coefficient>PRODUCT: Not classified No data available

Degradation>PRODUCT:

Polyethylene:

Not classified
No data available

Biodegradation>PRODUCT:
Polyethylene:
No data available

12.3. BIOACCUMULATIVE POTENTIAL>PRODUCT: Not classified No data available

12.4. MOBILITY IN SOIL>PRODUCT:

Polyethylene:

No data available

12.5. OTHER ADVERSE EFFECTS>PRODUCT: Not classified Polyethylene: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. DISPOSAL METHOD

Every commercial waste producer shall either treat wastes generated from his/her place of business by him/herself or commission the treatment of such wastes to a person who has license for a waste treatment business under Article 26(3), a person who recycles of such wastes under Article 44(2), a person who has installed and operates a waste disposal facility under Article 4 or 5, a person who has completed the registration of a business of discharging wastes into the sea under Article 18 of the Marine Environment Management Act.

13.2. PRECAUTIONS (INCLUDING DISPOSAL OF CONTAMINATED CONTAINER OF PACKAGE)

Discuss it according to waste regulation.

Do not allow spill material to enter sewers, storn water drains, soil, etc.

Empty containers may explode and residues can be ignited when pressured, cut, weld, heated.

Empty containers may rupture when pressured.

Empty containers recycled under environmental laws.

Use a certified waste disposal company.

Wear an appropriate Personal protection. (See Exposure Controls/Personal Protection section.)

SECTION 14: TRANSPORT INFORMATION

UN number:
Proper shipping name:
Class or division:
Packing group:
Marine pollutant:
Not applicable
Not applicable
Not applicable
Not applicable



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Special safety response for transportation or transportation measure

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

- ADR

Tunnel restriction code: Not applicable

Not applicable

- IMDG

Marine pollutant: Not applicable

- Air transport(IATA)

UN number:
Proper shipping name:
Class or division:
Packing group:

Not applicable
Not applicable
Not applicable

SECTION 15: REGULATORY INFORMATION

15.1. NATIONAL AND/OR INTERNATIONAL REGULATORY INFORMATION

Global Inventory - USA. Toxic Substances Control Act (TSCA) Chemical Substances Inventory (12 April 2018)
- Polyethylene

ETC regulation - EPCRA (SARA Title III) Section 302 Extremely Hazardous Substance (EHS) (40 CFR 355, Appendix A) Not applicable

ETC regulation - OSHA Hazard Communication Standard: On One of the Floor Lists of the OSHA HCS (29 CFR 1910. 1200) Not applicable

ETC regulation - EPCRA (SARA Title III) Section 313 Toxic Chemical Release Inventory (TRI) Reporting for RY 2013 (as amended Sep. 30, 2014)

Not applicable

ETC regulation - CERCLA Hazardous Substances [other than radionuclides] (40 CFR 302.4) (as amended by 75 FR 78918, Dec. 17, 2010)

Not applicable

ETC regulation - RCRA Appendix VII: Hazardous Wastes (40 CFR 261, App. VII, Basis for Listing Hazardous Waste) Not applicable

ETC regulation - CERCLA. Radionuclides and their Reportable Quantities (40 CFR 302.4, App. B) Not applicable

ETC regulation - RCRA D List of Characteristic Hazardous Wastes (40 CFR 261.21-24)
Not applicable

ETC regulation - RCRA F List of Hazardous Wastes from Non-Specific Sources (40 CFR 261.31(a)) (as amended by 73 FR 31756, June 4, 2008)

Not applicable

ETC regulation - RCRA K List of Hazardous Wastes from Specific Sources (40 CFR 261.32) Not applicable

ETC regulation - RCRA P List of Hazardous Wastes (40 CFR 261.33(e) and 40 CFR 302 [CERCLA]) Not applicable

ETC regulation - RCRA U List of Hazardous Wastes (40 CFR 261.33(f) and 40 CFR 302 [CERCLA], as amended 75 FR 78918, Dec 17, 2010

Not applicable

ETC regulation - DOT Hazardous Materials Table Listings (49 CFR 172.101, as amended through October 31, 2013) Not applicable

ETC regulation - EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances Not applicable



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SECTION 16: OTHER INFORMATION

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DISCLAIMER OF RESPONSIBILITY:

TWO H Chem Ltd. does not recommend and will not knowingly provide any of its products, including samples, for use as: Components of, or packaging for, tobacco products; Components of products where the end product is intended for human or animal consumption; In any application that is intended for any internal contact with human body fluids or body tissues; As a critical component in any medical device that supports or sustains human life; In any product that is designed specifically for ingestion or internal use by pregnant women; and in any application designed specifically to promote or interfere with human reproduction.

The information on this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct testdata on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of orin any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.

REFERENCE

ChemIDPlus

Corporate Solution From Thomson Micromedex(http://csi.micromedex.com)

ECHA registration data

ECOSAR

EPA

EPISUITE

Ecological Structure Activity Relationships(ECOSAR)

International Uniform ChemicaL Information Database(IUCLID)(http://ecb.jrc.it/esis)

NITE,e-ChemPortal;CESAR

National Library of Medicine(NLM)(http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?CHEM)

National Library of Medicine(NLM)(http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?CHEM), Corporate Solution From Thomson Micromedex(http://csi.micromedex.com)

OECD Screening Information Data Set(http://cs3-hq.oecd.org/scripts/hpv/)

OSHA

QSAR

SIDS

Seton compliance resource center(http://www.setonresourcecenter.com)

TOPKAT

e-ChemPortal;CESAR

OTHER INFORMATION:

Note 1 · Always ensure adequate ventilation of the workplace.

- · Local exhaust ventilation of process equipment may be needed.
- · Avoid breathing vapors or fumes.
- Incorrect operation of processing equipment can cause thermal degradation of the polymerand a potential danger Note 2 through inclusion of bubbles of air or other gases in material subsequently subjected to high temperatures.
- Note 3 Avoid sources of ignition such as heat or flames.

<Record management>

Revi	sion	Revision categories	Revision content	Revision date
Legi	slate	Overall	Legislate	March 11, 2024