

# SAFETY DATA SHEET Halar 350LC

#### 1. Identification

**Product identifier** 

Product name Halar 350LC

Product number HALAR-350LC-25KG

Recommended use of the chemical and restrictions on use

**Application** Industrial use.

**Uses advised against**This product is designed for use by technically competent persons. Any use of this product,

other than for its stated use, should not be attempted without expert review.

Details of the supplier of the safety data sheet

Supplier Kurt J Lesker Company

Manufacturer Kurt J Lesker Company

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Jefferson Hills, PA 15025

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Emergency telephone number

Emergency telephone Emergency Numbers

North America [USA, Canada, Mexico]: 1-866-519-4752

Mainland China: (+86) 4001 2001 74 Europe: {int'l call prefix}-1-760-476-3961 Asia Pacific: {int'l call prefix}-1-760-476-3960

Middle East & Africa: {int'l call prefix}-1-760-476-3959

South Korea: +080-880-0455 Philippines: (+63) 2 83953471

### 2. Hazard(s) identification

### Classification of the substance or mixture

Physical hazards Combustible Dust - USH01

Health hazards Not Classified
Environmental hazards Not Classified

Label elements

#### Halar 350LC

Signal word Warning

**Hazard statements** USH01 May form combustible dust concentrations in air.

#### Other hazards

Based on available knowledge of this material, it has been determined to be non-hazardous and will not pose a risk to persons or the environment in its provided form. However, any cutting, welding, melting, grinding, or use for deposition will produce dust, fume, or particulates containing component elements of this material. Exposure to these components may present significant health hazards. Note: Fine particulate may be a combustible dust which, when dispersed in air, may present an explosion hazard.

### 3. Composition/information on ingredients

#### **Mixtures**

#### Ethylene-chlorotrifluoroethylene copolymer

100%

CAS number: 25101-45-5

#### 4. First-aid measures

# Description of first aid measures

General information Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical

personnel.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms

are severe or persist.

**Ingestion** Rinse mouth thoroughly with water. Do not induce vomiting unless under the direction of

medical personnel. If in doubt, get medical attention promptly. Show this Safety Data Sheet to

the medical personnel.

Skin Contact Wash skin thoroughly with soap and water or use an approved skin cleanser. Wash

contaminated clothing before reuse. Cool skin rapidly with cold water after contact with hot

polymer. Do no peel polymer from the skin. Get medical attention.

**Eye contact** Rinse with water. Continue to rinse for at least 15 minutes and get medical attention.

**Protection of first aiders** First aid personnel should wear appropriate protective equipment during any rescue.

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

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

**Inhalation** No specific symptoms known.

**Ingestion** No specific symptoms known.

Skin contact Prolonged contact may cause dryness of the skin. Contains components which may penetrate

the skin. May cause defatting of the skin but is not an irritant. Mild dermatitis, allergic skin

rash.

**Eye contact** No specific symptoms known. Causes eye irritation.

#### Indication of immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

### 5. Fire-fighting measures

### Extinguishing media

Suitable extinguishing media

The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

### Special hazards arising from the substance or mixture

Specific hazards

Combustible Material In a fire, the polymer melts, producing droplets which may propagate fire. Heating may cause a fire or explosion.

Hazardous combustion products

Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors. Carbon dioxide (CO2). Carbon monoxide (CO). Toxic gases or vapors.

### Advice for firefighters

Protective actions during firefighting

Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Personal precautions

Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Contact with hot product can cause serious thermal burns. For personal protection, see Section 8. Avoid dust formation.

#### **Environmental precautions**

**Environmental precautions** 

Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

### Methods and material for containment and cleaning up

Methods for cleaning up

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13. Avoid generation and spreading of dust. Avoid spreading dust or contaminated materials.

Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

### 7. Handling and storage

#### Precautions for safe handling

#### Usage precautions

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers. Avoid generation and spreading of dust. Avoid inhalation of vapors and contact with skin and eyes. Avoid release to the environment. Ground container and transfer equipment to eliminate sparks from static electricity. In case of insufficient ventilation, wear suitable respiratory equipment.

# Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

#### Conditions for safe storage, including any incompatibilities

Keep only in the original container. Keep container tightly closed, in a cool, well ventilated Storage precautions

place. Keep containers upright. Protect containers from damage. Avoid dust formation. Do not

store near heat sources or expose to high temperatures.

Storage class Chemical storage.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

#### 8. Exposure controls/Personal protection

#### Ingredient comments

No exposure limits known for ingredient(s).

### **Exposure controls**

### Protective equipment





### Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Ensure the ventilation system is regularly maintained and tested. Good general ventilation should be adequate to control worker exposure to airborne contaminants. Observe any occupational exposure limits for the product or ingredients.

#### Eye/face protection

Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Dust-resistant, chemical splash goggles. Wear tight-fitting, dustresistant, chemical splash goggles if airborne dust is generated.

### Hand protection

Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

# Other skin and body

protection

Wear appropriate clothing to prevent any possibility of skin contact.

### Hygiene measures

Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

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Respiratory protection Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH

approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with OSHA 1910.134. Full face mask respirators with replaceable filter cartridges should comply with OSHA 1910.134. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.

Thermal hazards If there is a risk of contact with hot product, all protective equipment worn should be suitable

for use with high temperatures.

Environmental exposure

controls

Keep container tightly sealed when not in use.

#### 9. Physical and chemical properties

# Information on basic physical and chemical properties

Appearance Solid. Pellets.

Color White.

Odor Odorless.

Odor threshold Not available.

**pH** Not applicable.

Melting point 446°C/230°F

**Initial boiling point and range** Not applicable.

Flash point Not applicable.

**Evaporation rate** Not determined.

**Evaporation factor** Not available.

**Flammability (solid, gas)**The product is not flammable. Dust may form explosive mixture with air.

Upper/lower flammability or

explosive limits

Data lacking.

Vapor pressureNot applicable.Vapor densityNot applicable.

Relative density Data lacking.

**Bulk density** ~ 1.65 g/cm3

Solubility(ies) Insoluble in water.

Partition coefficient Not applicable.

Auto-ignition temperature Data lacking.

**Decomposition Temperature** 300°C/572°F

Oxidizing properties There are no chemical groups present in the product that are associated with oxidizing

properties.

Not applicable.

### 10. Stability and reactivity

Viscosity

**Reactivity** There are no known reactivity hazards associated with this product.

#### Halar 350LC

Stable at normal ambient temperatures and when used as recommended. Stable under the

prescribed storage conditions.

Possibility of hazardous

reactions

No potentially hazardous reactions known. Will not polymerize.

Conditions to avoid Avoid generation and spreading of dust. Avoid heat, flames and other sources of ignition.

Avoid heat, flames and other sources of ignition.

Materials to avoid Flammable/combustible materials. Alkali metals.

Hazardous decomposition

products

Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors. Carbon dioxide (CO2). Carbon dioxide (CO2). Hydrogen chloride (HCl). Hydrogen fluoride (HF).

# 11. Toxicological information

### Information on toxicological effects

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) No specific test data are available.

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) No specific test data are available.

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) No specific test data are available.

Skin corrosion/irritation

**Skin corrosion/irritation**No specific test data are available.

Serious eye damage/irritation

Serious eye damage/irritation No specific test data are available.

Respiratory sensitization

**Respiratory sensitization** No specific test data are available.

Skin sensitization

**Skin sensitization** No specific test data are available.

Germ cell mutagenicity

Genotoxicity - in vitro

No specific test data are available.

Genotoxicity - in vivo

No specific test data are available.

Carcinogenicity

Carcinogenicity No specific test data are available.

IARC carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

NTP carcinogenicity Carcinogenicity in humans is not expected.

OSHA Carcinogenicity Carcinogenicity in humans is not expected.

Reproductive toxicity

**Reproductive toxicity - fertility** No specific test data are available.

Reproductive toxicity -

No specific test data are available.

development

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Specific target organ toxicity - single exposure

**STOT - single exposure** No specific test data are available.

Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** No specific test data are available.

Aspiration hazard

**Aspiration hazard** No data available.

### 12. Ecological information

Acute aquatic toxicity

Acute toxicity - fish No specific test data are available.

Acute toxicity - aquatic

invertebrates

Not available.

Acute toxicity - aquatic plants Not available.

Acute toxicity -

Not available.

microorganisms

Acute toxicity - terrestrial Not available.

Chronic aquatic toxicity

Chronic toxicity - fish early life Not available.

stage

Short term toxicity - embryo

and sac fry stages

Not available.

### Persistence and degradability

Persistence and degradability No data available.

**Phototransformation** No specific test data are available.

Stability (hydrolysis) No specific test data are available.

**Biodegradation** No specific test data are available.

**Biological oxygen demand** No specific test data are available.

**Chemical oxygen demand** No specific test data are available.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient Not applicable.

Mobility in soil

Mobility No data available.

Adsorption/desorption

coefficient

No specific test data are available.

Henry's law constant No specific test data are available.

### 13. Disposal considerations

### Waste treatment methods

### Halar 350LC

General information The generation of waste should be minimized or avoided wherever possible. Reuse or recycle

products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product

residues and hence be potentially hazardous.

Disposal methods

Dispose of surplus products and those that cannot be recycled via a licensed waste disposal

contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents.

Incineration or landfill should only be considered when recycling is not feasible.

#### 14. Transport information

Road transport notes Not regulated.

Rail transport notes Not regulated.

Sea transport notes Not regulated.

Air transport notes Not regulated.

**DOT transport notes**Not regulated.

**UN Number** 

UN No. (International) Not applicable.

UN No. (DOT) Not applicable.

UN proper shipping name

Proper shipping name

(International)

Not applicable.

Proper shipping name (DOT) Not applicable.

Transport hazard class(es)

Transport Labels

No transport warning sign required.

(International)

DOT transport labels

No transport warning sign required.

Packing group

Packing group (International) Not applicable.

**DOT packing group** Not applicable.

**Environmental hazards** 

**Environmentally Hazardous Substance** 

No.

Special precautions for user

Not applicable.

DOT reportable quantity Not applicable.

**DOT TIH Zone** Not applicable.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

#### 15. Regulatory information

#### **US Federal Regulations**

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

Not listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

Not listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

Not listed.

SARA 313 Emission Reporting

Not listed.

SARA (311/312) Hazard Categories

Combustible Dust

**OSHA Highly Hazardous Chemicals** 

Not listed.

**US State Regulations** 

California Proposition 65 Carcinogens and Reproductive Toxins

Not listed.

Label Prop 65 data

### Inventories

#### **EU - EINECS/ELINCS**

All the ingredients are listed or exempt.

#### Canada - DSL/NDSL

All the ingredients are listed or exempt.

**US-TSCA** 

All components of this product are included in inventory, exempt, or notified

#### US - TSCA 12(b) Export Notification

None of the ingredients are listed or exempt.

Australia - AICS

All the ingredients are listed or exempt.

Japan - ENCS

All the ingredients are listed or exempt.

Korea - KECI

All the ingredients are listed or exempt.

China - IECSC

All the ingredients are listed or exempt.

# Philippines - PICCS

All the ingredients are listed or exempt.

### 16. Other information

Revision date 6/30/2022

Revision 4

Supersedes date 6/22/2022

**SDS No.** 5992

Hazard statements in full USH01 May form combustible dust concentrations in air.

**End of SDS**