



## SAFETY DATA SHEET HALAR 500LC

### 1. Identification

#### Product identifier

**Product name** HALAR 500LC  
**Product number** HALAR-500LC-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  
 1925 Route 51  
 Jefferson Hills, PA 15025  
 +1 412-387-9200  
  
 Kurt J Lesker Company LTD  
 United Kingdom  
 Austin House  
 Sidney Little Road  
 Churchfields Industrial Estate  
 St Leonards on Sea, East Sussex, TN38 9PU, United Kingdom  
 Customer Service: +44 (0) 1424 458100  
 msds@lesker.com

#### 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

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<b>Signal word</b>	Warning
<b>Hazard statements</b>	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

<b>General information</b>	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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.
<b>Skin Contact</b>	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 not peel polymer from the skin. Get medical attention.
<b>Eye contact</b>	Rinse with water. Continue to rinse for at least 15 minutes and get medical attention.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue.

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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	No specific symptoms known.
<b>Ingestion</b>	No specific symptoms known.
<b>Skin contact</b>	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.
<b>Eye contact</b>	No specific symptoms known. Causes eye irritation.

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

<b>Notes for the doctor</b>	Treat symptomatically.
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## 5. Fire-fighting measures

### Extinguishing media

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**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 (CO<sub>2</sub>). 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

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<b>Usage precautions</b>	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.
<b>Advice on general occupational hygiene</b>	Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.
<b><u>Conditions for safe storage, including any incompatibilities</u></b>	
<b>Storage precautions</b>	Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Avoid dust formation. Do not store near heat sources or expose to high temperatures.
<b>Storage class</b>	Chemical storage.
<b><u>Specific end uses(s)</u></b>	
<b>Specific end use(s)</b>	The identified uses for this product are detailed in Section 1.

### 8. Exposure controls/Personal protection

<b>Ingredient comments</b>	No exposure limits known for ingredient(s).
<b><u>Exposure controls</u></b>	
<b>Protective equipment</b>	
 	
<b>Appropriate engineering controls</b>	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.
<b>Eye/face protection</b>	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, dust-resistant, chemical splash goggles if airborne dust is generated.
<b>Hand protection</b>	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.
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent any possibility of skin contact.
<b>Hygiene measures</b>	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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<b>Respiratory protection</b>	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.
<b>Thermal hazards</b>	If there is a risk of contact with hot product, all protective equipment worn should be suitable for use with high temperatures.
<b>Environmental exposure controls</b>	Keep container tightly sealed when not in use.

### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

<b>Appearance</b>	Solid. Pellets.
<b>Color</b>	White.
<b>Odor</b>	Odorless.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not applicable.
<b>Melting point</b>	446°C/230°F
<b>Initial boiling point and range</b>	Not applicable.
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not determined.
<b>Evaporation factor</b>	Not available.
<b>Flammability (solid, gas)</b>	The product is not flammable. Dust may form explosive mixture with air.
<b>Upper/lower flammability or explosive limits</b>	Data lacking.
<b>Vapor pressure</b>	Not applicable.
<b>Vapor density</b>	Not applicable.
<b>Relative density</b>	Data lacking.
<b>Bulk density</b>	~ 1.65 g/cm <sup>3</sup>
<b>Solubility(ies)</b>	Insoluble in water.
<b>Partition coefficient</b>	Not applicable.
<b>Auto-ignition temperature</b>	Data lacking.
<b>Decomposition Temperature</b>	300°C/572°F
<b>Viscosity</b>	Not applicable.
<b>Oxidizing properties</b>	There are no chemical groups present in the product that are associated with oxidizing properties.

### 10. Stability and reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
<b>Possibility of hazardous reactions</b>	No potentially hazardous reactions known. Will not polymerize.
<b>Conditions to avoid</b>	Avoid generation and spreading of dust. Avoid heat, flames and other sources of ignition. Avoid heat, flames and other sources of ignition.
<b>Materials to avoid</b>	Flammable/combustible materials. Alkali metals.
<b>Hazardous decomposition products</b>	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors. Carbon dioxide (CO <sub>2</sub> ). Carbon dioxide (CO <sub>2</sub> ). 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 - development** No specific test data are available.

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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 - microorganisms** Not available.

**Acute toxicity - terrestrial** Not available.

### Chronic aquatic toxicity

**Chronic toxicity - fish early life stage** Not available.

**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

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<b>General information</b>	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.
<b>Disposal methods</b>	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

<b>Road transport notes</b>	Not regulated.
<b>Rail transport notes</b>	Not regulated.
<b>Sea transport notes</b>	Not regulated.
<b>Air transport notes</b>	Not regulated.
<b>DOT transport notes</b>	Not regulated.
<b><u>UN Number</u></b>	
<b>UN No. (International)</b>	Not applicable.
<b>UN No. (DOT)</b>	Not applicable.
<b><u>UN proper shipping name</u></b>	
<b>Proper shipping name (International)</b>	Not applicable.
<b>Proper shipping name (DOT)</b>	Not applicable.
<b><u>Transport hazard class(es)</u></b>	
<b>Transport Labels (International)</b>	No transport warning sign required.
<b>DOT transport labels</b>	No transport warning sign required.
<b><u>Packing group</u></b>	
<b>Packing group (International)</b>	Not applicable.
<b>DOT packing group</b>	Not applicable.
<b><u>Environmental hazards</u></b>	
<b>Environmentally Hazardous Substance</b>	
No.	
<b><u>Special precautions for user</u></b>	
Not applicable.	
<b>DOT reportable quantity</b>	Not applicable.
<b>DOT TIH Zone</b>	Not applicable.



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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

### 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.

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### Philippines - PICCS

All the ingredients are listed or exempt.

#### 16. Other information

<b>Revision date</b>	6/30/2022
<b>Revision</b>	4
<b>Supersedes date</b>	6/22/2022
<b>SDS No.</b>	5991
<b>Hazard statements in full</b>	USH01 May form combustible dust concentrations in air.
<b>End of SDS</b>	