

1. Identification

GHS product identifier	LUMIFLON FE4500	
SDS number	AGC-R-0040	
Version No.	01	
Issue date	16-December-2020	
CAS #	Mixture	
Recommended use	Raw material for industry	
Recommended Restrictions	Not available.	
Manufacturer		
Company name	AGC Inc. Chemicals Company Coating Business Group	
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	Asia Pacific: +1-760-476-3960,+66-21056177, +81-368908677	
	Middle East & Africa: +1-760-476-3959	
	US, Canada,Mexico: +1-866-519-4752	
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2. Hazards identification

GHS classification

Physical hazards	Flammable liquids	Not classified
	Pyrophoric liquids	Not classified
Health hazards	Serious eye damage/eye irritation	Category 2
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the ozone layer	Classification not possible

GHS label elements

Signal word Warning



Hazard statement

H319 Causes serious eye irritation.
H401 Toxic to aquatic life.

Precautionary statement

Prevention

P233 Keep container tightly closed.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves and eye/face protection.

Response

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical assistance if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.

Storage

P235 Keep cool.
P405 Store locked up.
P410 Protect from sunlight.

P403 + P233

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

Disposal

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification

None known.

Supplemental information

None.

3. Composition/information on ingredients

Components	CAS #	Percent
fluoro resin	Trade Secret	47.5
Polyoxyethylene alkyl ether	Trade Secret	2.5
water	-	50

4. First aid measures

First aid procedures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin

Take off immediately all contaminated clothing.
Wipe up with absorbent material (e.g. cloth, fleece).
Wash off with soap and water.
Wash contaminated clothing before reuse.
Do not use solvents and thinner for wipe up.
Get medical attention if irritation develops and persists.

Eye

Get medical attention immediately.
Immediately flush eyes with plenty of water for at least 15 minutes.
Remove contact lenses, if present and easy to do.
Continue rinsing.

Ingestion

If swallowed, seek medical advice immediately and show this container or label.
Do not induce vomiting without advice from poison control center.
If possible, give a large amount of water to be discharged.

Most important symptoms and effects, both acute and delayed

Direct contact with eyes may cause temporary irritation.

Notes to physician

Provide general supportive measures and treat symptomatically.

General advice

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

When a surrounding fire occurs, extinguish with an appropriate extinguishing agent according to the situation.
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Not applicable, non-combustible.

Specific hazards arising from the chemical

During combustion, harmful gases (hydrogen fluoride, halocarbons, carbon monoxide and low molecular weight carbon fluoride) can be generated.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective clothing when extinguishing fire, as harmful gases may be generated during combustion.

Protection of fire-fighters

Fight fire from upwind area.

General fire hazards

No unusual fire or explosion hazards noted.

Specific methods

Remove flammable materials from the environment
Use designated extinguishing media.
Cool closed containers exposed to high temperatures with water.
Perform fire extinguishing activities in response to surrounding fires.
Remove movable containers from the fire area wherever possible.

6. Accidental release measures

Personal precautions

Keep unnecessary personnel away.
Keep people away from and upwind of spill/leak.
Wear appropriate protective equipment and clothing during clean-up.
Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Ensure adequate ventilation.
Local authorities should be advised if significant spillages cannot be contained.
For personal protection, see section 8 of the SDS.

Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Do not discharge to rivers. Be careful not to cause environmental impact
Methods for containment	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.
Methods for cleaning up	Ventilate the contaminated area. Wear appropriate protective equipment and clothing during clean-up. This product is miscible in water. Prevent product from entering drains. Do not allow material to contaminate ground water system. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Handling	A small amount of sediment may be found in the container after standing for a long time. Please stir well before use. Provide adequate ventilation. Do not get in eyes, on skin, on clothing. Avoid release to the environment. Observe good industrial hygiene practices. Use personal protection recommended in Section 8 of the SDS. Prohibit the use of fire, sparks, and hot objects in the vicinity Do not use strong oxidizing agents. Do not eat, drink and smoke when handling. Wash hands and face thoroughly after handling, and do not bring protective equipment such as gloves into rest areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
Storage	Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS). Store in tightly closed container. When storing outdoors as a pail, attach a roof or cover. To prevent freezing, do not use below 0 ° C. Do not store in places where there is a risk of mixing with oxidizing substances and organic peroxides.

8. Exposure controls / personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Recommended monitoring procedures	Follow standard monitoring procedures.
Engineering controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. In case of indoor work, use auto application equipment or local ventilation equipment to prevent a worker from directly being exposed Attach emergency shower and eye washing equipment to work area and clearly display its position. The equipment shall be made with corrosion resistant material. Make sure that workers do not directly touch or expose corrosive substances.
Personal protective equipment	
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	Wear appropriate chemical resistant clothing.
Respiratory protection	Respiratory protection not required. Chemical respirator with organic vapour cartridge.
Hand protection	Wear appropriate chemical resistant gloves.

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Colour	Milky white
Form	Not available.

Odour	Not available.
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Boiling point	100 °C (212 °F) water
Flash point	Not applicable, non flammable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Flammability limits in air, lower, % by volume	Not available.
Flammability limits in air, upper, % by volume	Not available.
Vapour pressure	Same as water.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Miscible with water
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Density	1.18 g/cm ³

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Not available.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidising agents.
Hazardous decomposition products	Not available.

11. Toxicological information

Toxicological data

Product	Species	Test Results
LUMIFLON FE4500		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg Polyoxyethylene alkyl ether
Oral		
LD50	Mouse	1170 - 7600 mg/kg Polyoxyethylene alkyl ether
Routes of exposure	Eye contact.	
Acute toxicity		
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Irritation Corrosion - Skin		
Polyoxyethylene alkyl ether		Draize Test Result: Mild irritant Species: Rabbit
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Maximum group mean score		
Polyoxyethylene alkyl ether		Draize Test Result: Causes severe eye irritation. Species: Rabbit
Respiratory sensitiser	Not available.	

Mutagenicity	Not available.
Germ cell mutagenicity: Ames test LUMIFLON FE4500	OECD471 Result: Negative
Carcinogenicity	Due to partial or complete lack of data the classification is not possible. None of the Japan Society for Occupational Health, ACGIH, NTP, IARC is mentioned
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not available.
Specific target organ toxicity - repeated exposure	Not available.
Aspiration hazard	Not available.
Symptoms	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

12. Ecological information

Ecotoxicological data

Product	Species	Test Results
LUMIFLON FE4500		
Aquatic		
Fish	LC50 Fathead minnow (<i>Pimephales promelas</i>)	0.48 - 12 mg/l, 96 Hours (Polyoxyethylene alkyl ether)
Ecotoxicity	In case of leakage, disposal etc., there is a risk of influencing the environment, so handle with care. Especially when products and washing water. Take measures not to flow directly to the ground, river or drainage.	
Environmental effects	Toxic to aquatic organisms. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.	
Persistence and degradability	No data is available on the degradability of this product.	
Bioaccumulation	Not available.	
Aquatic toxicity	Toxic to aquatic organisms.	
Mobility	Not available.	

13. Disposal considerations

Disposal methods	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Waste from residues / unused products	Waste generated by wastewater treatment, incineration, etc. shall be processed or consigned according to Waste Management and Public Cleansing Act. and the related laws. Do not flush wastewater cleaned in containers, equipment, etc. to the ground or drain. When incinerating, harmful gases may be generated, so incinerate in an equipment that can handle exhaust gas. Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. The remaining products (residual waste) should be discarded according to the law concerning waste disposal and cleaning and the prefectural / municipal regulations.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to IMO instruments Not established.

General information

In case of falling under the Fire Service Law, Occupational Safety and Health Law, Poisonous and Deleterious Substances Control Law, follow the transportation method prescribed by each applicable law.

To comply with the provisions of the ship safety law. Follow the aviation laws.

When transporting, keep the container at 40 ° C or below, taking care not to fall over, fall, or damage.

15. Regulatory information**Regulatory information**

Ensure this materials in compliance with federal requirements and ensure conformity to local regulation.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information**Disclaimer**

AGC Inc. Chemicals Company Coating Business Group

SDS is a document for business operators. Not all materials and literature have been investigated, so there may be information leaks. In addition, the content will change due to the announcement of new knowledge and correction of the existing theory. When used for important decisions, it is recommended to examine the sources carefully and to confirm by examination. No guarantee is made for the data or evaluation described. In addition, the items described are intended for normal handling. Therefore, when handling specially, be sure to implement safety measures suitable for new applications and usages before handling. Attach this SDS when transferring this product. This product is an industrial product, it is not the thing which developed / manufactured assuming the medical use.