

1. Identification

GHS product identifier	LUMIFLON FE4400
SDS number	AGC-J-3340
Version No.	02
Issue date	16-December-2020
Revision date	25-August-2021
Supersedes date	16-December-2020
CAS #	Mixture
Recommended use	Raw material for industry
Recommended Restrictions	Not available.

Manufacturer/Importer/Supplier/Distributor information

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
	Other countries: +1-760-476-3971

2. Hazards identification

GHS classification

Physical hazards	Flammable liquids	Not classified
	Pyrophoric liquids	Not classified
Health hazards	Not classified.	
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the ozone layer	Classification not possible

GHS label elements

Signal word	None.
Hazard symbols	None.
Hazard statement	
H402	Harmful to aquatic life.

Precautionary statement

Prevention

P233	Keep container tightly closed.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
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.
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Storage

P235	Keep cool.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410	Protect from sunlight.

Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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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	48.5
Polyoxyethylene alkyl ether	Trade Secret	2.5
water	-	49

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. Wash off with soap and water. Wipe up with absorbent material (e.g. cloth, fleece). Do not use solvents and thinner for wipe up. Get medical attention if changes in appearance or pain occur.
Eye	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Rinse immediately with plenty of water, also under the eyelids. Get medical attention immediately.
Ingestion	If swallowed, seek medical advice immediately and show this container or label. Do not swallow vomit. If possible, give a large amount of water to be discharged.

Most important symptoms and effects, both acute and delayed Not available.

Notes to physician Treat symptomatically.

General advice Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media Use fire-extinguishing media appropriate for surrounding materials.
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media Not applicable, non-combustible.

Specific hazards arising from the chemical During fire, gases hazardous to health may be formed.

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.

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.
Ensure adequate ventilation.
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

Use personal protection recommended in Section 8 of the SDS.
Do not get in eyes, on skin, on clothing.
Provide adequate ventilation.
Wear appropriate personal protective equipment. Avoid release to the environment.

Avoid release to the environment.

A small amount of sediment may be found in the container after standing for a long time. Please stir well before use.

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.

Storage

Store in a cool, dry place out of direct sunlight.

Store in tightly closed container.

Store away from incompatible materials (see Section 10 of the SDS).

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

Eye wash facilities and emergency shower must be available when handling this product.
In case of indoor work, use auto application equipment or local ventilation equipment to prevent a worker from directly being exposed

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

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	Not available.
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	1.16 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	Organic peroxide. Peroxidic substance. Strong oxidising agents.
Hazardous decomposition products	Not available.

11. Toxicological information

Toxicological data

Product	Species	Test Results
LUMIFLON FE4400		
<u>Acute</u>		
Oral		
LD50	Rat	> 2500 mg/kg
Acute toxicity	Not available.	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Not available.	
Respiratory sensitiser	Not available.	
Skin sensitisation	Skin sensitization: 0.1% or more and less than 1% of substance of skin sensibility 1B is included.	
Mutagenicity		
Germ cell mutagenicity: Ames test		
fluoro resin	OECD 471	Result: Negative
Carcinogenicity	None of the Japan Society for Occupational Health, ACGIH, NTP, IARC is mentioned	
Reproductive toxicity	Not available.	
Specific target organ toxicity - single exposure	Not available.	
Specific target organ toxicity - repeated exposure	Not available.	
Aspiration hazard	Not available.	
Symptoms	Direct contact with eyes may cause temporary irritation.	

12. Ecological information

Ecotoxicological data

Components		Species	Test Results
Polyoxyethylene alkyl ether			
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	0.39 - 0.56 mg/l, 48 hours
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>)	0.72 - 2.7 mg/l, 96 hours
Ecotoxicity	Harmful to aquatic life. 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	Harmful 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	Harmful to aquatic organisms.		
Mobility	This product is miscible in water.		
Other adverse effects	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 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.
Waste from residues / unused products	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.
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International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No
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

This product is an industrial product, it is not the thing which developed / manufactured assuming the medical use.

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.

up date: Section11 (2021.8)