AGC

SAFETY DATA SHEET

1. Identification

GHS product identifier LUMIFLON LF916F

SDS number AGC-R-1736

Version No. 01

Issue date 20-January-2021

CAS # Mixture

Recommended use Raw material for industry

Recommended Restrictions Not available.

Manufacturer

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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

Health hazards

Physical hazards Flammable solids Not classified

Pyrophoric solids Not classified
Acute toxicity, oral Not classified
Reproductive toxicity Category 1B

Environmental hazards Hazardous to the aquatic environment, Not classified

long-term hazard

Hazardous to the ozone layer Classification not possible

GHS label elements

Signal word Danger



Hazard statement

H360 May damage fertility or the unborn child.

Precautionary statement

Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P308 + P313 IF exposed or concerned: Get medical advice/attention.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification

Is which do not None known.

Supplemental information None.

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3. Composition/information on ingredients

Components	CAS#	Percent
Fluorinated resin	Trade Secret	>=98
Ethylbenzene	100-41-4	<1
Xylene	1330-20-7	<1
Additive	Trade Secret	-

4. First aid measures

First aid procedures

Eye

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

If not breathing, give artificial respiration.

Call a poison centre or doctor/physician if you feel unwell.

Skin Wipe up with absorbent material (e.g. cloth, fleece).

Wash off with soap and water.

Do not use solvents and thinner for wipe up.

Get medical attention if irritation develops and persists. Call a physician or poison control centre immediately.

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.

Ingestion Get medical attention as soon as possible.

Do not induce vomiting without advice from poison control center.

If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Do not swallow vomit.

Most important symptoms and effects, both acute and delayed Direct contact with eyes may cause temporary irritation.

Provide general supportive measures and treat symptomatically. Keep victim under observation. Notes to physician

Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice General advice (show the label where possible). Ensure that medical personnel are aware of the material(s)

involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in

attendance.

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 available.

Specific hazards arising from

the chemical

In the event of a fire, toxic gases such as hydrogen chloride, hydrogen fluoride, halocarbonyl, and

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

carbon monoxide may be generated.

Protective equipment and precautions for firefighters

Use water spray to cool unopened containers.

Protection of fire-fighters General fire hazards

No unusual fire or explosion hazards noted.

Specific methods

Use designated extinguishing media.

Remove flammable materials from the environment

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.

Local authorities should be advised if significant spillages cannot be contained. Sweep up or vacuum up spillage and collect in suitable container for disposal.

Prepare a suitable fire extinguisher in case of ignition. For personal protection, see section 8 of the SDS.

Avoid discharge into drains, water courses or onto the ground. **Environmental precautions**

Take precautionary measures against static discharge. **Methods for containment**

Stop the flow of material, if this is without risk.

Ventilate the contaminated area. Methods for cleaning up

Wear appropriate protective equipment and clothing during clean-up.

Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

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7. Handling and storage

Handling

Work in an enclosed area with adequate local exhaust and appropriate protective equipment. Prohibit the use of fire, sparks and high temperature materials in the vicinity the product.

Work in an enclosed area with adequate local exhaust and appropriate protective equipment.

Provide adequate ventilation.

Use electrically conductive materials for piping circuits and equipment.

Do not breathe gas.

Do not breathe vapours or spray mist.

Provide appropriate exhaust ventilation at places where dust is formed. Do not handle or store near an open flame, heat or other sources of ignition. Do not handle until all safety precautions have been read and understood.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid prolonged exposure.

Pregnant or breastfeeding women must not handle this product.

Should be handled in closed systems, if possible.

Provide adequate ventilation.

Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Storage Store locked up.

Store in tightly closed container.

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

8. Exposure controls / personal protection

Control parameters

US. ACGIH Threshold Limit Values

Components	Туре	Value	
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
Xylene (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	

Biological limit values

ACGIH Biological	Exposure Indices
0	V-1

Components	Value	Determinant	Specimen	Sampling Time
Ethylbenzene (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
Xylene (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*

^{* -} For sampling details, please see the source document.

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. When handling indoors, seal the source, or install a local exhaust system.

Attach emergency shower and eye washing equipment to work area and clearly display its

position.

Personal protective equipment

Eye/face protectionWear safety glasses with side shields (or goggles).Skin protectionUse of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapour cartridge.

When workers are facing concentrations above the exposure limit they must use appropriate

certified respirators.

Hand protection Wear appropriate chemical resistant gloves.

9. Physical and chemical properties

Appearance

Physical state Solid.

Material name: LUMIFLON LF916F SDS GHS UN

ColourLight yellow.FormSolid.

Odour Not available.
Odour threshold Not available.
pH Not available.
Melting point/freezing point Not available.

Boiling point 138 - 144 °C (280.4 - 291.2 °F) Xylene

Flash point

Evaporation rate

Flammability (solid, gas)

Flammability limits in air,
lower, % by volume

Not available.

Not available.

Flammability limits in air, upper, % by volume

Not available.

Vapour pressureNot available.Vapour densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.
(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Softening point 90 - 100 °C (194 - 212 °F) Tube method

Density 1.40 g/cm3 (25°C)

Other data

Explosive properties Not explosive. **Oxidising properties** Not oxidising.

10. Stability and reactivity

ReactivityThe 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

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidising agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Toxicological data

Components	Species	Test Results
Ethylbenzene (CAS 100-41-	-4)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	15400 mg/kg
Inhalation		
LC50	Rat	4000 ppm, 4 hr
Oral		
LD50	Rat	3500 mg/kg
Xylene (CAS 1330-20-7)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 4350 mg/kg

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Components Species Test Results

Inhalation

LC50 Rat 29.08 mg/l, 4 Hours

Oral

LD50 Rat 3500 mg/kg

Routes of exposure Inhalation.

Toxicological information Occupational exposure to the substance or mixture may cause adverse effects.

Acute toxicity Not known.

Skin corrosion/irritation

Due to partial or complete lack of data the classification is not possible.

Serious eye damage/eye

Due to partial or complete lack of data the classification is not possible.

irritation

Irritation Corrosion - Eye

Xylene Category2
Ethylbenzene Category2A

Respiratory sensitiser

Due to partial or complete lack of data the classification is not possible.

Skin sensitisation

Due to partial or complete lack of data the classification is not possible.

Mutagenicity

Due to partial or complete lack of data the classification is not possible.

Germ cell mutagenicity: Ames test

Ethylbenzene Result: Negative Xylene Result: Negative

Germ cell mutagenicity: Chromosome abberation

Ethylbenzene Result: Negative Xylene Result: Negative Germ Cell Mutagenicity: In Vitro Mammalian Cell Gene Mutation Tests

Ethylbenzene Result: There are both negative and positive reports. Xylene Result: There are both negative and positive reports.

Germ Cell Mutagenicity: Micronucleus

Ethylbenzene Result: Negative Xylene Result: Negative

Carcinogenicity Risk of cancer cannot be excluded with prolonged exposure.

Ethylbenzene Category2

ACGIH Carcinogens

Ethylbenzene (CAS 100-41-4)

A3 Confirmed animal carcinogen with unknown relevance to

humans.

Xylene (CAS 1330-20-7) A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethylbenzene (CAS 100-41-4) 2B Possibly carcinogenic to humans.

Xylene (CAS 1330-20-7) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity May damage fertility or the unborn child.

Reproductivity

Ethylbenzene Category1B Xylene Category1B

Specific target organ toxicity - Due to partial or complete lack of data the classification is not possible.

single exposure

Xylene Cat.1(Central nervous system, Respiratory, Liver, Kidney), Cat.3(

Narcrotic

Ethylbenzene Cat.3 (Respiratory irritation, Narcotic effect)

Specific target organ toxicity -

repeated exposure

Xylene

Due to partial or complete lack of data the classification is not possible.

Cat.1 (Nervous system, Respiratory organs)

Ethylbenzene Category2(Hearing organs)

Aspiration hazard Due to partial or complete lack of data the classification is not possible.

Xylene Category1

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

Symptoms Direct contact with eyes may cause temporary irritation.

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12. Ecological information

Ecotoxicological data

Product Species Test Results LUMIFLON LF916F Aquatic Chronic EL50 Algae Algae > 100 mg/l, 72 h **NOEC** > 1.1 mg/l, 21 days Crustacea Daphnia magna Components **Species Test Results** Ethylbenzene (CAS 100-41-4) Aquatic Acute EC50 1.37 - 4.4 mg/l, 48 hours Crustacea Water flea (Daphnia magna) Fish LC50 Atlantic silverside (Menidia menidia) 4.4 - 5.7 mg/l, 96 hours Xylene (CAS 1330-20-7) Aquatic Acute

LC50 Fish Rainbow trout, donaldson trout 3.3 mg/l, 96 hours

(Oncorhynchus mykiss)

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the

No data is available on the degradability of any ingredients in the mixture.

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

Bioaccumulation

Bioaccumulative potential

Octanol/water partition coefficient log Kow

Ethylbenzene 3.15

Aquatic toxicity Not classified.

Mobility No data available for this product.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal methods Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

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

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.

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

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.

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Transport in bulk according to

IMO instruments

Not applicable.

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)

Material name: LUMIFLON LF916F

Canada	Domestic Substances List (DSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes

Inventory name

16. Other information

United States & Puerto Rico

Country(s) or region

Disclaimer

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

On inventory (yes/no)*

Yes

AGC Inc. Chemicals Company Coating Business Group

Toxic Substances Control Act (TSCA) Inventory

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.

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^{*}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).