SAFETY DATA SHEET

Aerosol Stone Chip

SECTION 1: IDENTIFICATION OF PRODUCT AND COMPANY

1.1 Product Identifier

Product name: Aerosol Stone Chip
Product Code: FL6031

1.2 Relevant identified uses of the substance or mixture and uses advised against

Intended use: For Industrial spraying.

1.3 Details of supplier of the safety data sheet

Details of company:
FLP Group
Unit 1 Clayfields Industrial Estate
Tickhill Road
Doncaster
DN4 8QG
+44 (0) 1302 571571
sales@flpgroup.co.uk

1.4 Emergency telephone number

Emergency Tel: +44 (0) 1302 571571

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification under CLP: Aero 1: H222-H229; Aquatic Chronic 2: H411; Skin Irrit. 2 H315; Eye Irrit. 2: H319; STOT SE 3 H336.

Most important adverse effects: Extremely flammable aerosol. Pressurised container: May burst if heated.

2.2 Label elements

Hazard statements:
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Contains: Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Signal words: Warning

Hazard pictograms:
GHS02: Flame
GHS07: Exclamation mark
GHS09: Environmental

Precautionary statements:
P101 if medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251 Do not pierce or burn, even after use.
P260 Do not breathe spray.
P211 Do not spray on an open flame or other ignition source.
P280 Wear protective gloves / eye protection.

P273 Avoid release to the environment.
P271 Use only outdoors or in a well-ventilated area.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P403 Store in a well-ventilated place.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Other hazards: No other known hazards.
PBT: This substance is not identified as a PBT substance.

SECTION 3: COMPOSITON/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous ingredients:

EINECS	CAS	CLP Classification	Percent
Propane Reg.nr.: 01-2119486944-21			
200-827-9	74-98-6	Flam. Gas 1, H220; Press. Gas C, H280	25-<50%
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics Reg.nr.: 01-2119473851-33			
920-750-0		Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	10-<25%
butanone / MEK Reg.nr.: 01-2119457290-43			
201-159-0	78-93-3	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	10-<25%
xylene (mix) Reg.nr.: 01-2119488216-32			
215-535-7	1330-20-7	Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	2.5-<10%
Naphtha (petroleum), hydrotreated light Reg.nr.: 01-2119475515-33			
927-510-4	64742-49-0	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	2.5-<10%
1-methoxy-2-propanol Reg.nr.: 01-2119457435-35			
203-539-1	107-98-2	Flam. Liq. 3, H226; STOT SE 3, H336	2.5-<10%
Carbon black			
215-609-9	1333-86-4	Self-heat. 1, H251	0.1-<1.0%
Ethanol Reg.nr.: 01-2119457610-43			
200-578-6	64-17-5	Flam. Liq. 2, H225; Eye Irrit. 2, H319	0.1-<1.0%

SAFETY DATA SHEET

Aerosol Stone Chip

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Skin contact:	Generally the product does not irritate the skin.
Eye contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Ingestion:	Do not induce vomiting; call for medical help immediately.
Inhalation:	Supply fresh air; consult doctor in case of complaints.

4.2 Most Important symptoms and effects, both acute and delayed

No further relevant information available

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Extinguishing media:	Water haze, Fire-extinguishing powder, Carbon dioxide, Alcohol resistant foam

Extinguishing media which must not be used for safety reasons: Water jet.

5.2 Special hazards arising from the substance or mixture

No further relevant information available

5.3 Advice for fire-fighters

Advice for fire-fighters:	Mount respiratory protective device.

SECTION 6: ACCIDENTAL REALESE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:	Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions

Environmental precautions:	Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up

Clean-up procedures:	Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents.

6.4 Reference to other sections

Reference to other sections:	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information

SECTION 7: HANDLING & STORAGE

7.1 Precautions for safe handling

Handling requirements:	Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.

Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool location. Observe official regulations on storing packaging with pressurised containers. Observe official regulations on storing packaging with pressurised containers. Keep receptacle tightly sealed. Do not seal receptacle gas tight. Store in cool, dry conditions in well-sealed receptacles. Protect from heat and direct sunlight.

7.3 Specific end use(s)

Specific end use(s): No further relevant information available.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

74-98-6 propane
- OEL Short-term value: 3600 mg/m³, 2000 ppm
  Long-term value: 1800 mg/m³, 1000 ppm

78-93-3 butanone / MEK
- WEL Short-term value: 899 mg/m³, 300 ppm
  Long-term value: 600 mg/m³, 200 ppm
- Sk, BMGV

1330-20-7 xylene (mix)
- WEL Short-term value: 441 mg/m³, 100 ppm
  Long-term value: 220 mg/m³, 50 ppm
- Sk; BMGV

107-98-2 1-methoxy-2-propanol
- WEL Short-term value: 560 mg/m³, 150 ppm
  Long-term value: 375 mg/m³, 100 ppm
- Sk

1333-86-4 Carbon black
- WEL Short-term value: 7 mg/m³
  Long-term value: 3.5 mg/m³

64-17-5 ethanol
- WEL Long-term value: 1920 mg/m³, 1000 ppm

DNELs:

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Oral	DNEL Long term-systemic	699 mg/kg bw/day (Consumer)
Dermal	DNEL Long term-systemic	699 mg/kg bw/day (Consumer)
		773 mg/kg bw/day (Worker)
Inhalative	DNEL Long term-systemic	608 mg/m3 (Consumer)
		2035 mg/m3 (Worker)

78-93-3 butanone / MEK

Oral	DNEL Long term-systemic	31 mg/kg bw/day (Consumer)
Dermal	DNEL Long term-systemic	412 mg/kg bw/day (Consumer)
		1161 mg/kg bw/day (Worker)
Inhalative	DNEL Long term-systemic	106 mg/m3 (Consumer)
		600 mg/m3 (Worker)
Oral	DNEL Long term-systemic	3.125 mg/kg bw/day (Worker)
Inhalative	DNEL Long term-local	310 mg/m3 (Consumer)
		55 mg/m3 (Worker)

Ingredients with biological limit values:
78-93-3 butanone / MEK

BMGV	70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one

1330-20-7 xylene (mix)

BMGV	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

Additional Occupational Exposure Limit Values for possible hazards during processing:
100-41-4 ethylbenzene

WEL	Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm Sk

108-88-3 toluene

WEL	Short-term value: 384 mg/m³, 100 ppm Long-term value: 191 mg/m³, 50 ppm Sk

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

General protective and hygienic measures: Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device Filter AX/P2. Use suitable respiratory protective device in case of insufficient ventilation Filter A/P2

Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture. Solvent resistant gloves. Wear gloves for the protection against chemicals according to EN 374. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application. Nitrile rubber, NBR Recommended thickness of the material: ³ 0.5 mm. Penetration time of glove material: For continuous contact we recommend gloves with breakthrough time of at least 240 minutes, with the preference given to a breakthrough time greater than 480 minutes. For short-term or splash guard we recommend the same. We are aware that suitable gloves that offer this level of protection may not be available. In that case, a shorter breakthrough time are acceptable as long as the procedures governing maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance of the gloves against a chemical substance, because this depends on the exact composition of the material from which the gloves are made. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles

Body protection: Use protective suit. (EN-13034/6)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:

Form:	Aerosol
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	-44 °C
Flash point:	-97 °C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	>200 °C
Decomposition temperature:	Not determined.
Self-igniting:	Product is not self-igniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits:	
Lower:	0.7 Vol %
Upper:	20.0 Vol %
Vapour pressure at 20°C:	8300 hPa
Density at 20°C:	0.782 g/cm³
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not applicable.
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content	
Organic solvents:	74.9%
Solids content:	24.6%

9.2 Other information

No further relevant information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity: No further relevant information available

10.2 Chemical stability

Chemical stability: No decomposition if used according to specifications.

10.3 Possibilities of hazardous reactions

Hazardous reactions: No dangerous reactions known.

10.4 Conditions to avoid

Conditions to avoid: No further relevant information available

10.5 Incompatible materials

Materials to avoid: No further relevant information available

10.6 Hazardous decomposition products

Hazardous decomposition products: No dangerous decomposition products known

SECTION 11: TOXICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2800 mg/kg (rabbit)
Inhalative	LC50/4 h	>23 mg/l (rat)

78-93-3 butanone / MEK

Oral	LD50	>2193 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
		5000 mg/kg (rbt)

1330-20-7 xylene (mix)

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rbt)

64742-49-0 Naphtha (petroleum), hydrotreated light "(Note P; -R45, R46; <0,1% benzene)"

Oral	LD50	4300-6000 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rabbit)
Inhalative	LC50/4h	>60 mg/l (rat)

Primary irritant effect:

Skin corrosion/irritation:	Causes skin irritation.
Serious eye damage/irritation:	Causes serious eye damage.
Respiratory or skin sensitisation:	Based on available data, the classification criteria are not met.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Reproductive toxicity:	Based on available data, the classification criteria are not met.
STOT-single exposure:	May cause drowsiness or dizziness.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity:

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

NOELR (72h)	10 mg/l (Pseudokirchneriella subcapitata)
EL50 (72h)	10-30 mg/l (Pseudokirchneriella subcapitata)
LL50 (96h)	>13.4 mg/l (Oncorhynchus mykiss (96h))
NOEC (21 days)	0.17 mg/l (Daphnia magna)
LOEC (21 days)	0.32 mg/l (Daphnia magna)
EC50/48h	3 mg/l (Daphnia magna)

78-93-3 butanone / MEK

LC50/96h	2993 mg/l (Pimephales promelas)
EC50/48h	308 mg/l (Daphnia magna)

1330-20-7 xylene (mix)

LC50/96h	8.9-16.4 mg/l (Pimephales promelas)

EC50/48h	3.2-9.5 mg/l (Daphnia magna)

64742-49-0 Naphtha (petroleum), hydrotreated light "(Note P; -R45, R46; <0,1% benzene)"

LC50	35-37 mg/l (Fish)

12.2 Persistence and degradability
No further relevant information available

12.3 Bio accumulative potential
No further relevant information available

12.4 Mobility in soil
No further relevant information available

Additional ecological information: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment
PBT identification: This substance is not identified as a PBT substance

12.6 Other adverse effects
No further relevant information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging: Disposal must be made according to official regulations..

SECTION 14: TRANSPORTATION INFORMATION

14.1 UN number
ADR, ADN, IMDG, IATA: 1950

14.2 UN proper shipping name

ADR, AND:	UN1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS
IMDG:	AEROSOLS (Naphtha (petroleum), hydrotreated light (Benzene < 0.1%), Naphtha (petroleum), hydrotreated light "(Note P; -R45, R46; <0.1% benzene)"), MARINE POLLUTANT
IATA:	Aerosols, flammable

14.3 Transport hazard class

ADR

Class	2 5F Gases.
Label	2.1

ADN

ADN/R Class:	2 5F

IMDG, IATA

Class	2.1
Label	2.1

14.4 Packaging group

Packing group:	void

14.5 Environmental hazards

Product contains environmentally hazardous substances: Naphtha (petroleum), hydrotreated light (Benzene <0,1%)

Marine pollutant:	Yes
	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)

14.6 Special precautions for user

Danger code (Kemler):	-
EMS Number:	F-D,S-U
Stowage Code;	SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
Segregation Code:	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

Transport/Additional information:

ADR

Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	D

IMDG

Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category P3a FLAMMABLE AEROSOLS

Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

Technical instructions (air):

Class	Share in %

NK 50-<75

VOC-CH 74.85%
VOC-EU 585.3 g/l
Danish MAL Code 5-3

15.2 Chemical safety assessment
A Chemical Safety Assessment has not been carried out.

SECTION 16: OTHER INFORMATION

Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010. * indicates text in the SDS which has changed since the last revision.
Phrases used in section 3:	H220 Extremely flammable gas. H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H251 Self-heating: may catch fire. H280 Contains gas under pressure; may explode if heated. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects.
Legal disclaimer:	The above information is believed to be correct but does not support to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.