

SAFETY DATA SHEET

Pre Charged Aerosol Blanks

Date: 27-06-2017

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SECTION 1: IDENTIFICATION OF PRODUCT AND COMPANY

1.1 Product Identifier

Product name: Pre Charged Aerosol Blanks
Product Code: FL6050

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; Eye Dam. 1: H318; Skin Irrit. 2: H315; 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.
H318 Causes serious eye Damage.
H336 May cause drowsiness or dizziness.
Signal words: Warning
Hazard pictograms: GHS02: Flame
GHS05: Corrosion
GHS07: Exclamation mark



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.
P271 Use only outdoors or in a well-ventilated area.

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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.
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: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous ingredients:

EINECS	CAS	CLP Classification	Percent
dimethyl ether Reg.nr.: 01-2119472128-37			
204-065-8	115-10-6	Flam. Gas 1, H220; Press. Gas C, H280	50-<75%
Acetone Reg.nr.: 01-2119471330-49			
200-662-2	67-64-1	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	25-<50%
n-butyl acetate Reg.nr.: 01-2119485493-29			
204-658-1	123-86-4	Flam. Liq. 3, H226; STOT SE 3, H336	2.5-<10%
Butanol Reg.nr.: 01-2119484630-38			
200-751-6	71-36-3	Flam. Liq. 3, H226; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	2.5-<10%
2-butoxyethanol Reg.nr.: 01-2119475108-36			
203-905-0	111-76-2	Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	1.0-<2.5%

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

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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 RELEASE 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.

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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:

115-10-6 dimethyl ether

WEL Short-term value: 958 mg/m³, 500 ppm
Long-term value: 766 mg/m³, 400 ppm

67-64-1 Acetone

WEL Short-term value: 3620 mg/m³, 1500 ppm
Long-term value: 1210 mg/m³, 500 ppm

123-86-4 n-butyl acetate

WEL Short-term value: 966 mg/m³, 200 ppm
Long-term value: 724 mg/m³, 150 ppm

71-36-3 butanol

WEL Short-term value: 154 mg/m³, 50 ppm
Sk

111-76-2 2-butoxyethanol

WEL Short-term value: 246 mg/m³, 50 ppm
Long-term value: 123 mg/m³, 25 ppm
Sk, BMGV

DNELs:

67-64-1 Acetone

Oral	DNEL Long term-systemic	62 mg/kg bw/day (Consumer)
Dermal	DNEL Long term-systemic	62 mg/kg bw/day (Consumer)
Inhalative	DNEL Acute-local	186 mg/kg bw/day (Worker)
	DNEL Long term-systemic	2420 mg/m ³ (Worker)
		200 mg/m ³ (Consumer)
		1210 mg/m ³ (Worker)

71-36-3 butanol

Oral	DNEL Long term-systemic	3.125 mg/kg bw/day (Worker)
Inhalative	DNEL Long term-local	310 mg/m ³ (Consumer)
		55 mg/m ³ (Worker)

PNECs:

67-64-1 Acetone

PNEC Marine water	1.06 mg/l (Undefined)
PNEC Freshwater sediment	30.4 mg/kg (Undefined)
PNEC Soil	29.5 mg/kg (Undefined)
PNEC Marine water sediment	3.04 (Undefined)

Ingredients with biological limit values:

111-76-2 2-butoxyethanol

BMGV 240 mmol/mol creatinine
Medium: urine
Sampling time: post shift
Parameter: butoxyacetic acid

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

8.2 Exposure controls

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Do not inhale gases/fumes/aerosols. Avoid contact with the eyes. Avoid contact with the eyes and skin.

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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:	-24 °C
Flash point:	-42 °C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	235 °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:	1.1 Vol %
Upper:	18.6 Vol %
Vapour pressure at 20°C:	5200 hPa
Density at 20°C:	0.722 g/cm ³
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not applicable.
Solubility in / Miscibility with water:	Not miscible or difficult to mix.

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Partition coefficient (n-octanol/water): Not determined.

Viscosity

Dynamic: Not determined.

Kinematic: Not determined.

Solvent content

Organic solvents: 100.0 %

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:

67-64-1 Acetone

Oral LD50 5800 mg/kg (rat)

Dermal LD50 7800 mg/kg (rbt)

Inhalative LC50/4h >20 mg/l (rat)

71-36-3 butanol

Oral LD50 2292 mg/kg (rat)

Dermal LD50 3430 mg/kg (rbt)

Inhalative LC50/4 h >17.76 mg/l (rat)

111-76-2 2-butoxyethanol

Oral LD50 300 mg/kg (rabbit)

470 mg/kg (rat)

Dermal LD50 2000 mg/kg (rabbit)

Primary irritant effect:

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye damage.

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Respiratory or skin sensitisation:	Based on available data, the classification criteria are not met.
CMR effects (carcinogenicity, 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:

67-64-1 Acetone

EC50	8800 mg/l (Daphnia magna)
	8300 (96h) mg/l (Fish)

71-36-3 butanol

NOEC (21 days)	4.1 mg/l (Daphnia magna)
LC50/96h	1376 mg/l (Pimephales promelas)
EC50/48h	1328 mg/l (Daphnia magna)
EC50	225 mg/l (Selenastrum capricornatum (72 h))

111-76-2 2-butoxyethanol

LC50	1490 mg/l (Lepomis macrochirus (96 h))
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12.2 Persistence and degradability

Not applicable

12.3 Bio-accumulative potential

Not applicable

12.4 Mobility in soil

Not applicable

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.
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12.5 Results of PBT and vPvB assessment

PBT identification:	This substance is not identified as a PBT substance
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12.6 Other adverse effects

None

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..

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SECTION 14: TRANSPORTATION INFORMATION

14.1 UN number

ADR, ADN, IMDG, IATA: 1950

14.2 UN proper shipping name

ADR, AND: UN1950 Aerosols
IMDG: Aerosols
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

Marine pollutant: No

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

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

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

Technical instructions (air):

Class	Share in %
NK	75-<100

VOC-CH 100.00 %

VOC-EU 722.0 g/l

Danish MAL Code 4-1

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.
H280 Contains gas under pressure; may explode if heated.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

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.