

SAFETY DATA SHEET

CS60 2K Etch Clearcoat

Date: 20-06-2017

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SECTION 1: IDENTIFICATION OF PRODUCT AND COMPANY

1.1 Product Identifier

Product name: CS60 2K Etch Clearcoat
Product Code: FL8050

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

Intended use: Paint for metal
Uses advised against: Not suitable for use in homeworke (DIY) applications

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: Flam. Liq. 3; STOT SE 3; Aquatic Chronic 3; EUH066
Most important adverse effects: Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

2.2 Label elements

Hazard statements: H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.
Signal words: Warning
Hazard pictograms: GHS02: Flame
GHS07: Exclamation mark



Precautionary statements: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing fume/gas/mist/vapours/spray.
P280 Wear protective gloves.
P312 Call a POISON CENTER/ doctor/if you feel unwell.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Contains: n-butyl acetate
Hydrocarbons, C9, aromatics
2-butanone oxime: May produce an allergic reaction.

2.3 Other hazards

Other hazards: No other known hazards.

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PBT: This substance is not identified as a PBT substance.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous ingredients: Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:

- >= 20% - < 25% 2-methoxy-1-methylethyl acetate
REACH No.: 01-2119475791-29, Index number: 607-195-00-7, CAS: 108-65-6, EC: 203-603-9
R10; substance with a Community workplace exposure limit
2.6/3 Flam. Liq. 3 H226
- >= 15% - < 20% n-butyl acetate
REACH No.: 01-2119485493-29, Index number: 607-025-00-1, CAS: 123-86-4, EC: 204-658-1
R10-66-67
2.6/3 Flam. Liq. 3 H226
3.8/3 STOT SE 3 H336
EUH066
- >= 7% - < 10% Hydrocarbons, C9, aromatics
REACH No.: 01-2119455851-35, EC: 918-668-5
Xn,Xi,N; R10-37-51/53-65-66-67
2.6/3 Flam. Liq. 3 H226
3.10/1 Asp. Tox. 1 H304
3.8/3 STOT SE 3 H335
3.8/3 STOT SE 3 H336
4.1/C2 Aquatic Chronic 2 H411
EUH066
DECLP*
- >= 1% - < 3% Aromatic hydrocarbons, C8
REACH No.: 01-2119486136-34, CAS: 90989-38-1, EC: 292-694-9
Xn,Xi; R10-20/21-65-48/20-36/37/38
2.6/3 Flam. Liq. 3 H226
3.1/4/Dermal Acute Tox. 4 H312
3.1/4/Inhal Acute Tox. 4 H332
3.10/1 Asp. Tox. 1 H304
3.2/2 Skin Irrit. 2 H315
3.3/2 Eye Irrit. 2 H319
3.8/3 STOT SE 3 H335
3.9/2 STOT RE 2 H373
DECLJ*
- >= 1% - < 3% Polyurethane
Xi; R38
3.2/2 Skin Irrit. 2 H315
- >= 0.1% - < 0.5% 2-butanone oxime
REACH No.: 01-2119539477-28, Index number: 616-014-00-0, CAS: 96-29-7, EC: 202-496-6
Carc. Cat. 3,Xn,Xi; R21-40-41-43
3.6/2 Carc. 2 H351
3.3/1 Eye Dam. 1 H318
3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317
3.1/4/Dermal Acute Tox. 4 H312

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< 0.1% (2-methoxymethylethoxy) propanol
 REACH No.: 01-2119450011-60, CAS: 34590-94-8, EC: 252-104-2
 substance with a Community workplace exposure limit
 < 0.1% methanol
 REACH No.: 01-2119433307-44, Index number: 603-001-00-X, CAS: 67-56-1, EC: 200-659-6
 F,T; R11-23/24/25-39/23/24/25
 2.6/2 Flam. Liq. 2 H225
 3.8/1 STOT SE 1 H370
 3.1/3/Oral Acute Tox. 3 H301
 3.1/3/Dermal Acute Tox. 3 H311
 3.1/3/Inhal Acute Tox. 3 H331

*DECLP: Substance classified accordingly to Note P of the Annex I of directive 67/548/EEC. The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0.1% weight/weight of benzene

*DECLJ: Substance classified accordingly to Note J of the Annex I of directive 67/548/EEC. The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0.1% weight/weight of benzene

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Skin contact:	Skin contact causes redness. In case of prolonged contact, the skin may become dry. Remove immediately contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser. Do not use solvents or thinners.
Eye contact:	Contact with the eyes produces redness and pain. Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, holding the eyelids apart, until the irritation is reduced. Call a physician immediately.
Ingestion:	If swallowed, may cause irritation of the throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea. If swallowed, seek medical advice immediately and show container or label. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.
Inhalation:	Inhalation of solvent vapours may produce headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness. Inhalation produces irritation to mucus, coughing and breathlessness. Remove the patient out of the contaminated area into the fresh air. If breathing is irregular or stops, administer artificial respiration. If the person is unconscious, place in appropriate recovery position. Keep the patient warm and at rest until medical attention arrives.

4.2 Most important symptoms and effects, both acute and delayed

None known

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Treatment should be directed at the control of symptoms and the clinical condition of the patient. Antidotes and contraindications: Specific antidote not known.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Extinguishing media: Extinguishing powder or CO2. In the case of more important fires, also alcohol resistant foam and water spray/mist. Do not use for extinguishing: direct water jet. Direct water jet may not be effective to extinguish the fire, since the fire may spread.

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5.2 Special hazards arising from the substance or mixture

Exposure hazards:

Fire can produce a dense black smoke. As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products may be a hazard to health.

5.3 Advice for fire-fighters

Advice for fire-fighters:

Special protective equipment: Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, and protective glasses or face masks and boots. If the fire-proof protective equipment is not available or not used, combat fire from a sheltered position or at a safe distance. The standard EN469 provides a basic level of protection for chemical incidents. Other recommendations: Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

SECTION 6: ACCIDENTAL REALESE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product. Avoid breathing vapours. Keep people without protection in opposition to the wind direction.

6.2 Environmental precautions

Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Contain and mop up spills with non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth, etc.). Clean preferably with a biodegradable detergent. Avoid use of solvents. Keep the remains in a closed container.

6.4 Reference to other sections

For contact information in case of emergency, see section 1.

For information on safe handling, see section 7.

For exposure controls and personal protection measures, see section 8.

For subsequent waste disposal, follow the recommendations in section 13.

SECTION 7: HANDLING & STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists. Don't use empty container before they have been cleaned. Before making transfer operations, assure that there aren't any incompatible material residuals in the containers. Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight. Keep away from food, drink and feed. See chapter 10.5. Instructions as regards storage premises: Keep container tightly closed in a cool, well-ventilated place, away from heat.

7.3 Specific end use(s)

See chapter 1.2.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

EU – LTE (8h): 275 mg/m³, 50 ppm - STE: 550 mg/m³, 100 ppm - Notes: Indicative Occupational Exposure Limit Values [2, 3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

WEL -- Country: UNITED KINGDOM - LTE: 274 mg/m³, 50 ppm - STE: 548 mg/m³, 100ppm

N-butyl acetate - CAS: 123-86-4

ACGIH, 150 ppm, 200 ppm - Notes: Eye and URT irr

WEL -- Country: UNITED KINGDOM - LTE: 724 mg/m³, 150 ppm - STE: 966 mg/m³, 200 ppm

Hydrocarbons, C9, aromatics

ACGIH - LTE: 100 mg/m³

Aromatic hydrocarbons, C8 - CAS: 90989-38-1

ACGIH - LTE: 434 mg/m³, 100 ppm - STE: 651 mg/m³, 150 ppm

(2-methoxymethylethoxy) propanol - CAS: 34590-94-8

EU – LTE (8h): 308 mg/m³, 50 ppm - Notes: Indicative Occupational Exposure Limit Values [2, 3] and Limit Values for Occupational Exposure [4] (for references see bibliography)
ACGIH, 100 ppm, 150 ppm - Notes: Skin - Eye and URT irr, CNS impair

Methanol - CAS: 67-56-1

WEL -- Country: UNITED KINGDOM - LTE: 266 mg/m³, 200 ppm - STE: 333 mg/m³, 250 ppm
EU - LTE(8h): 260 mg/m³, 200 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2, 3] and Limit Values for Occupational Exposure [4] (for references see bibliography)
ACGIH, 200 ppm, 250 ppm - Notes: Skin BEI - Headache, eye dam, dizziness, nausea

DNEL Exposure Limit Values

Hydrocarbons, C9, aromatics

Worker Professional: 25 mg/l - Consumer: 11 mg/kg - Exposure: Human Dermal -

Frequency: Long Term, systemic effects

Worker Professional: 0.150 mg/l - Consumer: 0.032 mg/l - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

Consumer: 11 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Aromatic hydrocarbons, C8 - CAS: 90989-38-1

Worker Professional: 0.077 mg/l - Consumer: 0.0148 mg/l - Exposure: Human Inhalation -
Frequency: Long Term, systemic effects

Worker Professional: 180 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

Aromatic hydrocarbons, C8 - CAS: 90989-38-1

Target: Marine water - Value: 0.327 mg/l

Target: Fresh Water - Value: 0.327 mg/l

Target: Marine water sediments - Value: 12.46 mg/kg

Target: Fresh Water - Value: 12.46 mg/kg

Target: Soil (agricultural) - Value: 2.31 mg/kg

8.2 Exposure controls

Eye protection:

Eye glasses.

Skin protection:

Coat.

Hands protection:

Suitable material: NBR (nitrile rubber). FKM (fluoro rubber). The selection of suitable gloves does not only depend on the material,

Respiratory protection: but also on other quality characteristics and varies from manufacturer to another one, and on the manner and times of use of the mixture.
 Environmental exposure controls: Combination filtering device (DIN EN 141).
 See chapter 6.2

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance and colour: coloured thick liquid
 Odour: of solvent.
 Odour threshold: nd
 pH: nd
 Melting point / freezing point: nd
 Initial boiling point and boiling range: nd
 Solid/gas flammability: na
 Upper/lower flammability or explosive limits: nd
 Vapour density: nd
 Flash point: > 23 °C
 Evaporation rate: nd
 Vapour pressure: nd
 Relative density: 1.04 ÷ 1.21
 Solubility in water: not soluble
 Solubility in oil: nd
 Partition coefficient (n-octanol/water): nd
 Auto-ignition temperature: nd
 Decomposition temperature: nd
 Viscosity: 80 ÷ 110 sec. ISO-DIN cup 6 mm (20°C)
 Explosive properties: none
 Oxidizing properties: none

9.2 Other information

Miscibility: nd
 Conductivity: nd

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity: Stable under normal conditions

10.2 Chemical stability

Chemical stability: Stable under normal conditions.

10.3 Possibilities of hazardous reactions

Hazardous reactions: Possible dangerous reaction with oxidizing agents, acids, alkalis, peroxides

10.4 Conditions to avoid

Conditions to avoid: Keep away from sources of heat. If possible, avoid direct contact with sunlight. Avoid extreme humidity conditions.

10.5 Incompatible materials

Materials to avoid: Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

10.6 Hazardous decomposition products

Hazardous decomposition products: As consequence of thermal decomposition, hazardous products may be produced: sulphur oxides.

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SECTION 11: TOXICAL INFORMATION

11.1 Information on toxicological effects

Toxicological information of the main substances found in the mixture:

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 8530 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 5000 mg/kg

n-butyl acetate - CAS: 123-86-4

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 10000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 14000 mg/kg

Test: LC50 - Route: Inhalation Vapour - Species: Rat 21.1 mg/l - Duration: 4h

Hydrocarbons, C9, aromatics

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 3592 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 3160 mg/kg

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 6193 mg/m3 - Duration: 4h

Aromatic hydrocarbons, C8 - CAS: 90989-38-1

a) acute toxicity:

Test: LC50 - Route: Inhalation Vapour - Species: Rat 27124 mg/m3 - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat 3223 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit 12126 mg/kg

methanol - CAS: 67-56-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 5630 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit 15800 mg/kg

Test: LC50 - Route: Inhalation Vapour - Species: Rat 83.9 mg/l - Duration: 4h

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.A.:

a) acute toxicity;

b) skin corrosion/irritation;

c) serious eye damage/irritation;

d) respiratory or skin sensitisation;

e) germ cell mutagenicity;

f) carcinogenicity;

g) reproductive toxicity;

h) STOT-single exposure;

i) STOT-repeated exposure;

j) aspiration hazard.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hydrocarbons, C9, aromatics

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia 3.2 mg/l - Duration h: 48

Endpoint: IC50 - Species: Algae 2.9 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish 9.2 mg/l - Duration h: 96

Aromatic hydrocarbons, C8 - CAS: 90989-38-1

a) Aquatic acute toxicity:

Endpoint: IC50 - Species: Algae 2.2 mg/l - Duration h: 72

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Endpoint: EC50 - Species: Daphnia 1.0 mg/l - Duration h: 24

Endpoint: LC50 - Species: Fish 2.6 mg/l - Duration h: 96

12.2 Persistence and degradability

Not applicable

12.3 Bio accumulative potential

Not applicable

12.4 Mobility in soil

Not applicable

12.5 Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance

12.6 Other adverse effects

None

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

SECTION 14: TRANSPORTATION INFORMATION

14.1 UN number

ADR-UN Number:	1263
IATA-UN Number:	1263
IMDG-UN Number:	1263

14.2 UN proper shipping name

ADR-Shipping Name:	PAINT or PAINT RELATED MATERIAL
IATA-Shipping Name:	PAINT or PAINT RELATED MATERIAL
IMDG-Shipping Name:	PAINT or PAINT RELATED MATERIAL

14.3 Transport hazard class

ADR-Class:	3
ADR - Hazard identification number:	30
IATA-Class:	3
IATA-Label:	3
IMDG-Class:	3

14.4 Packaging group

ADR-Packing Group:	III
IATA-Packing group:	III
IMDG-Packing group:	III

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

ADR-Subsidiary risks:	-
ADR-S.P.:	163 640E 650
ADR-Tunnel Restriction Code:	(D/E)
IATA-Passenger Aircraft:	355
IATA-Subsidiary risks:	-
IATA-Cargo Aircraft:	366
IATA-S.P.:	A3 A72
IATA-ERG:	3L
IMDG-EmS:	F-E, S-E

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IMDG-Subsidiary risks: -
 IMDG-Storage category: Category A
 IMDG-Storage notes: -

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

Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)
 Dir. 1999/45/EC (Classification, packaging and labelling of dangerous preparations)
 Dir. 98/24/EC (Risks related to chemical agents at work)
 Dir. 2000/39/EC (Occupational exposure limit values)
 Dir. 2006/8/EC
 Regulation (EC) n. 1907/2006 (REACH)
 Regulation (EC) n. 1272/2008 (CLP)
 Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
 Regulation (EU) n. 453/2010 (Annex I)
 Regulation (EU) n. 286/2011 (ATP 2 CLP)
 Regulation (EU) n. 618/2012 (ATP 3 CLP)
 Regulation (EU) n. 487/2013 (ATP 4 CLP)
 Regulation (EU) n. 944/2013 (ATP 5 CLP)
 Regulation (EU) n. 605/2014 (ATP 6 CLP)

Volatile Organic compounds - VOCs = 46.95 %

Volatile CMR substances = 0.06 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Where applicable, refer to the following Italian regulatory provisions: Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.
 1999/13/EC (VOC directive)

15.2 Chemical safety assessment

No.

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:

- R10 Flammable.
- R11 Highly flammable.
- R20/21 Harmful by inhalation and in contact with skin.
- R21 Harmful in contact with skin.
- R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R37 Irritating to respiratory system.
- R38 Irritating to skin.
- R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
- R40 Limited evidence of a carcinogenic effect.
- R41 Risk of serious damage to eyes.
- R43 May cause sensitization by skin contact.

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R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H351 Suspected of causing cancer.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H225 Highly flammable liquid and vapour.

H370 Causes damage to organs.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

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.