

SAFETY DATA SHEET

COMPLETE

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier	
Product code	: KU400CPG01
Product name	: COMPLETE
1.2 Relevant identified uses of	the substance or mixture and uses advised against
Product use	: Speciality cleaner for use in lithographic printing
Uses advised against	: None known.
1.3 Details of the supplier of the	<u>safety data sheet</u>
Manufacturer / Distributor	 Flint Group, Print Media Europe, Varn House, Northbank Industrial Park, Irlam, Greater Manchester, M44 5BL England.
e-mail address of person responsible for this SDS	: MSDS.UnitedKingdom.Irlam.TM@flintgrp.com
1.4 Emergency telephone numb	er (with hours of operation)

<u>1.4 Emergency telephone number (with hours of operation)</u>

+44 (0) 333 333 9879 (8:00 h - 17:00 h)

<u>i listory</u>

story	
Date of printing	: 07.12.2017.
Date of issue/ Date of	: 01.12.2017.
revision	
Date of previous issue	: 18.08.2017.
Version	: 4

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

AQUATIC HAZARD (LONG-TERM) - Category 3 See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms	:	Not applicable.
Signal word	:	No signal word.
Hazard statements	:	H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	:	Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction. Repeated exposure may cause skin dryness or cracking.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.

2.3 Other hazards

SECTION 2: Hazards identification

PBT vPvB : P: Not available. B: Not available. T: Not available.

: vP: Not available. vB: Not available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

			Classification	_
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
ydrocarbons, C10-C13, n- alkanes, isoalkanes, cyclics, < 2% aromatics	REACH #: 01-2119457273-39 EC: 918-481-9 CAS: 64742-48-9 (CAS valid outside EU) Index: 649-327-00-6	≥25 - ≤50	Asp. Tox. 1, H304 EUH066	[1]
Hydrocarbons, C10, aromatics, <1% naphthalene	REACH #: 01-2119463583-34 EC: 265-198-5 CAS: 64742-94-5 (CAS valid outside EU) Index: 649-424-00-3	≤10	STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1] [2]
Oils, pine	CAS: 8002-09-3	≤5	Skin Irrit. 2, H315	[1]
citric acid	REACH #: 01-2119457026-42 CAS: 77-92-9	≤3	Eye Irrit. 2, H319	[1]
phosphoric acid	REACH #: 01-2119485924-24 CAS: 7664-38-2 Index: 015-011-00-6	≤3	Skin Corr. 1B, H314 Eye Dam. 1, H318	[1] [2]

See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

General	: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Inhalation	 Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

SECTION 4: First aid measures

Eye contact	Check for and remove any contact lenses. Immediately water for at least 15 minutes, keeping eyelids open. Se attention/advice.	
Ingestion	Remove dentures if any. Remove victim to fresh air and position comfortable for breathing. Do not induce vomit do so by medical personnel. If vomiting occurs, the heat that vomit does not enter the lungs. Get medical attenti effects persist or are severe. Give nothing by mouth. If recovery position and get medical attention immediately airway. Loosen tight clothing such as a collar, tie, belt of	ing unless directed to ad should be kept low so on if adverse health unconscious, place in y. Maintain an open
Protection of first-aiders	No action shall be taken involving any personal risk or v It may be dangerous to the person providing aid to give resuscitation.	

Use suitable protective equipment (section 8).

4.2 Most important symptoms and effects, both acute and delayed

See toxicological information (Section 11)

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician		In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable Extinguishing media	: Recommended:, alcohol-resistant foam, CO ₂ , powders, water spray	
Extinguishing media not to be used	: Do not use water jet.	

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	:	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	:	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
		Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides metal oxide/oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Do not release runoff from fire to drains or watercourses. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections

See Section 1 for emergency contact information. See Section 13 for additional waste treatment information. See Section 8 for information on appropriate personal protective equipment.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep container tightly closed. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8). Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with all local, regional, national and international regulations.

Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10).

Observe label precautions. Keep container tightly closed and in a well-ventilated place.

Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Storage temperature: 5 to 35°C

7.3 Specific end use(s) Not applicable.

7.4 Additional information

Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredient name	Occupational exposure limits
Hydrocarbons, C10, aromatics, <1%	EU OEL (Europe).
naphthalene	TWA: 50 mg/m³
	STEL: 15 ppm
glycerol	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	TWA: 10 mg/m ³ 8 hours. Form: Mist
phosphoric acid	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	STEL: 2 mg/m ³ 15 minutes.
	TWA: 1 mg/m ³ 8 hours.

SECTION 8: Exposure controls/personal protection

Other Exposure limits	: CMR: See toxicological information (Section 11)	
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedure for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.	s r es

DNELs/DMELs

No DNELs/DMELs available.

PNECs

revision

No PNECs available.

8.2 Exposure controls

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.

Individual protection measures

individual protection measu		
Respiratory protection	he appropriate standa	nd potential for exposure, select a respirator that meets rd or certification. Respirators must be used according ion program to ensure proper fitting, training, and other se.
Body protection	· · ·	uipment for the body should be selected based on the and the risks involved and should be approved by a ing this product.
Hand protection		pervious gloves complying with an approved standard mes when handling chemical products if a risk this is necessary.
Gloves	or prolonged or repea	ated handling, use the following type of gloves:
	Recommended: nitrile May be used: neopren	
Other skin protection	selected based on the	nd any additional skin protection measures should be task being performed and the risks involved and should ialist before handling this product.
Eye/face protection	Jse safety eyewear de	signed to protect against splash of liquids.
Environmental exposure co		

Do not allow to enter drains or watercourses.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Date of issue/Date of	: 01.12.2017.
Odor threshold	: Not available.
Odor	: Characteristic.
Color	: Colorless.
Physical state	: Liquid.
Appearance	

SECTION 9: Physical and chemical properties

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рН	:	2 to 3
Melting point	:	Not available.
Boiling point	:	>= 100 °C
Flash point	:	Closed cup: 62°C [Measured]
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not applicable.
Burning time	:	Not applicable.
Burning rate	:	Not applicable.
Explosion limits		
Lower:	:	0 %Vol
Upper:	:	19 %Vol
Vapor pressure	:	< 23 hPa
Vapor density	:	Not available.
Density	:	~ 1 g/cm³
Solubility	:	Soluble in water in any proportion.
Partition coefficient: n-	:	Not available.
octanol/water		
Auto-ignition temperature		ca 220 °C
Decomposition temperature	:	Not available.
Viscosity	:	Not available.
Explosive properties	:	Not available.
Oxidizing properties	:	Not available.
9.2 Other information		
SADT	:	Not available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Not available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

When exposed to high temperatures may produce hazardous decomposition products.

10.5 Incompatible materials

Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

There are no data available on the mixture itself. The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended. See sections 2 and 3 for details.

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in nonallergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage.

Substances / Mixtures

SECTION 11: Toxicological information

Acute toxicity	:			
Product/ingredient name	Result	Species	Dose	Exposure
	LD50 Oral LD50 Oral	Rat Rat	10250 mg/kg 3 g/kg	
Acute toxicity estimates				
Not available.				
Irritation/Corrosion	: Not available.			
Sensitization	: Contains Sensitizing mat and 3 for details.	erial . May prod	uce an allergic reac	ion. See sections 2
Mutagenicity	: Not available.			
Carcinogenicity	: Not available.			
Reproductive toxicity	: Not available.			
Specific target organ toxicity (single exposure)	: Not available.			
Specific target organ toxicity (repeated exposure)	: Not available.			
Aspiration hazard	: Not available.			
Chronic toxicity	: Not available.			
Teratogenicity	: Not available.			
ther information				
Toxicokinetics				
Absorption	: Not available.			
Distribution	:			
Metabolism	: Not available.			
Elimination	: Not available.			

SECTION 12: Ecological information

There are no data available on the mixture itself. This material is harmful to aquatic life with long lasting effects. Do not empty into drains or watercourses. See Sections 2 and 3 for details.

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Øils, pine	Acute EC50 24.5 ppm Fresh water Acute LC50 18.35 ppm Fresh water	Daphnia - Daphnia magna Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	48 hours 96 hours
citric acid	Acute LC50 160000 µg/l Marine water	Crustaceans - Carcinus maenas - Adult	48 hours
phosphoric acid	Acute EC50 105 ppm Fresh water Acute LC50 60 ppm Fresh water	Daphnia - Daphnia magna Fish - Lepomis macrochirus	48 hours 96 hours

12.2 Persistence and degradability

Not available.			
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Hydrocarbons, C10, aromatics, <1% naphthalene	-	-	Readily

12.3 Bioaccumulative potential

C	OMPLETE				
S	ECTION 12: Ecologi	cal informatio	n		
	Product/ingredient name	LogPow	BCF	Potential	
		2.8 to 6.5	99 to 5780	high	
	citric acid	-1.64	-	low	
<u>12</u>	12.4 Mobility in soil				

Not available.

12.5 Results of PBT and vPvB assessment

: P: Not available. B: Not available. T: Not available.

PBT vPvB

: vP: Not available. vB: Not available.

12.6 Other adverse effects

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

: Yes.

Methods of disposal: The generation of waste should be avoided or minimized wherever possible.
Empty containers or liners may retain some product residues. This material
and its container must be disposed of in a safe way. Dispose of surplus and
non-recyclable products via a licensed waste disposal contractor. Disposal of
this product, solutions and any by-products should at all times comply with the
requirements of environmental protection and waste disposal legislation and
any regional local authority requirements. Avoid dispersal of spilled material
and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste

European waste catalogue (EWC)

Waste code	Waste designation
07 07 01*	aqueous washing liquids and mother liquors

SECTION 14: Transport information

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

International transport regulations

This product is not regulated for carriage according to ADR/RID, ADN, IMDG, ICAO/IATA.

: Not applicable.

: Not applicable.

<u>14.1 UN number</u>		:	Not a	pplica	able.

- **14.2 Proper shipping name** : Not applicable.
- 14.3 Transport hazard class(es) : Not applicable.
- 14.4 Packing group
- **14.5 Environmental hazards** : Not applicable.
- 14.6 Special precautions for

<u>user</u>

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture				
EU Regulation (EC) No. 1907/200	EU Regulation (EC) No. 1907/2006 (REACH)			
Annex XIV - List of substances s	<u>ubject to author</u>	ization		
Annex XIV				
None of the components are listed.				
Substances of very high concerr	1			
None of the components are listed.				
Annex XVII - Restrictions on : the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.			
VOC content :	<mark>7</mark> 27.9 %	<mark>₹</mark> 265.2 g/L		
Europe inventory :	All components	are listed or exempted.		
National regulations				
	user's own asse safety legislatior	contained in this safety data sheet does not constitute the essment of workplace risks, as required by other health and n. The provisions of the national health and safety at work y to the use of this product at work.		
15.2 Chomical Safety Assessment				

15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

CEPE MSDS Code	: 8
Indicates information th	at has changed from previously issued version.
Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification Aquatic Chronic 3, H412			Justification Calculation method	
Date of printing Date of issue/ Date of revision Date of previous issue	:	12/7/2017 12/1/2017 8/18/2017		
Date of issue/Date of revision	:	01.12.2017.		Page: 9/10

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SECTION 16: Other information

Version

Notice to reader

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.