Safety Data Sheet

CMR-849 Universal Primer for Roland EcoUV Inks

according to Regulation (EU) 2015/830

Last Revision: 02.01.16 Version: V-2016-001
HR 1000

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

1.1 Product identifier

CMR-849

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

Relevant identified uses:
Universal Primer for Eco-UV Inks

1.3 Details of the supplier of the safety data sheet

Manufacturer/Distributor	CMR Coatings GmbH
Address/POB	Wilhelmstr. 8
IVR/ZIP/Place	D-32602 Vlotho
E-Mail	info@cmr-coatings.de
Telephone	+49 (0) 57 33 – 96 35 – 260
Fax	+49 (0) 57 33 – 96 35 – 263
Department of MSDS	info@chemieberatung.com

1.4 Emergency telephone number

+49 (0) 57 33 – 96 35 – 260

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

Flammable liquids, Hazard Category 2
Serious eye damage/eye irritation, Hazard Category 2
Specific target organ toxicity — Single exposure, Hazard Category 3, Narcosis

2.2 Label elements

Hazard pictograms:

GHS02
GHS07

Signal word: Danger

Hazard statements

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

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.
P280	Wear eye protection/face protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P235	Store in a well-ventilated place. Keep cool.

Name of the ingredient(s) given on the warning label
Not necessary.

2.3 Other hazards
Unknown.

SECTION 3 Composition/information on ingredients

3.1 Substances
This product is a mixture.

3.2 Mixtures
Mixture of solvents.

Hazardous ingredients
Acetone
EC No 200-662-2 CAS No 67-64-1
Content > 50 %
Classification codes Flam. Liq. 2; H225 – Eye Irrit. 2; H319 – STOT SE 3; H336 – EUH066
For this substance there are Union workplace exposure limits (see section 8).

Ethyl acetate
EC No 205-500-4 CAS No 141-78-6
Content 5 - < 10 %
Classification codes Flam. Liq. 2; H225 – Eye Irrit. 2; H319 – STOT SE 3; H336 – EUH066

The wording of the classification codes is in section 16.

SECTION 4 First aid measures

4.1 Description of first aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled Remove the person to fresh air, in case of indisposition obtain medical advice.

Skin contact Take off contaminated clothing. Wash off affected skin with plenty of water using soap in case of indisposition obtain medical advice.

Eye contact Spreading the eyelids, rinse thoroughly under running water, see an eye specialist.

If swallowed Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse the mouth with water. Calls a physician.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Spray jet, foam resistant to alcohol, solid extinguishing agent or carbon dioxide.

Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

Thermal decomposition to carbon monoxide and organic cracked products.

5.3 Advice for firefighters

Tightly closing fireproof clothing and oxygen apparatus.

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not allow the product to enter drains.

6.3 Methods and material for containment and cleaning up

Pick up with an inert absorbable material and dispose according to local regulations, unless otherwise usable.

6.4 Reference to other sections

For disposal, see section 13.

SECTION 7 Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition – No smoking. Take measures to prevent the build up of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Specific end uses

7.3 No data available.

SECTION 8
Exposure controls/personal protection

8.1 Control parameters

Components with workplace exposure limits (2000/39/EC)

Acetone

EC No 200-662-2	CAS No 67-64-1
Limit value (8 h)	1,210 mg/m3 – 500 ppm
Limit value (15 min.)	No notation.
Notation	No notation.

Components with workplace exposure limits (TRGS 900 Germany)

Acetone	
EC No 200-662-2	CAS No 67-64-1
AGW	500 ml/m3 (ppm) – 1,200 mg/m3
Peak limit	
Factor of exceeding	2(I)
Remarks	AGS, DFG, EU, Y
Ethyl acetate	
EC No 205-500-4	CAS No 141-78-6
AGW	400 ml/m3 (ppm) – 1,500 mg/m3
Peak limit	
Factor of exceeding	2(I)
Remarks	DFG, Y

Components with workplace exposure limits (TRGS 903 Germany)

Acetone	
EC No 200-662-2	CAS No 67-64-1
BGW	80 mg/l
Parameter	acetone
Testing material	urine
Date of sampling	end of exposure, resp. end of shift.

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Respiratory protection In case of exceeding the permitted exposure limit in closed rooms use a self-contained breathing apparatus.

Eye protection Use protective goggles.

Skin protection Use protective gloves according to EN 374.
Full contact: butyl rubber, minimum layer thickness 0.3 mm, breakthrough time 480 min.
Splash contact: butyl rubber, minimum layer thickness 0.3 mm, breakthrough time 480 min.

Body Protection Impervious clothing, flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the spe the dangerous substance at the specific workplace.

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not release the product into drains.

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Aggregate state			liquid	
Colour			colourless	
Odour			like solvents	
Melting point/melting range			Not available.	
Initial boiling point/boiling range		56	°C	
Flash point		-17	°C	(literature value)
pH	(T = 20 °C)		Not applicable.	
Flammability			High flammability.	
Ignition temperature			Not available.	
Auto flammability			Not applicable.	
Oxidising properties			Not applicable.	
Explosive properties			Applicable to vapour-air mixtures.	
Explosion limits	lower	2.1	% by volume	(solvents)
	upper	13	% by volume	(solvents)
Density	(T = 20 °C)		Not available.	
Water solubility	(T = 20 °C)		The product is partially soluble.	
Vapour pressure	(T = 20 °C)		Not available.	
Vapour density (air = 1)			Not available.	
Partition coefficient (n-octanol/water)	Not available.			
Viscosity	(T = 20 °C)		Not available.	
Separation of solvent			Not applicable.	
Content of solvents		100	%	
Evaporation rate			Not available.	

9.2 Other information

No data available.

SECTION 10 Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

This product is stable.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Bases, oxidising agents, reducing agents

10.6 Hazardous decomposition products

In case of fire only, see section 5.2.

SECTION 11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

for acetone

LD50 oral (rat)	5,800 mg/kg
LD50 dermal (guinea pig)	7,426 mg/kg
LC50 inhalation (rat)	50,100 mg/m3 / 8 h

for ethyl acetate

LD50 oral (rat)	5,620 mg/kg
LD50 dermal (rabbit)	> 18,000 mg/kg
LC50 inhalation (mouse)	45,000 mg/m3 / 2 h

Skin corrosion/irritation

No data available.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

Aspiration hazard

No data available.

Additional information

No data available.

SECTION 12 Ecological information

12.1 Toxicity

for acetone

Fish toxicity (oncorhynchus mykiss) LC50	5,540 mg/l / 96 h
Daphnia toxicity (daphnia magna) EC50	8,800 mg/l / 48 h

for ethyl acetate

Fish toxicity (oncorhynchus mykiss) LC50	360 – 600 mg/l / 96 h
Daphnia toxicity (daphnia magna) EC50	560 mg/l / 48 h
Algae toxicity (selenastrum) EC50	1,800 – 3,200 mg/l / 72 h

12.2 Persistence and degradability

The solvents are readily biodegradable.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

According to the available statements the criteria are not fulfilled for the classification as a PBT or vPvB.

12.6 Other adverse effects

Spilling product harms waters by high consumption of oxygen and general pollution impact.

SECTION 13 Disposal considerations

13.1 Waste treatment methods

Dangerous waste according to the European waste catalogue (2008/98/EC). If recycling is not possible, wastes must be eliminated according to the provisions of the local authorities. Do not dispose by the sewage.

EU waste codes

20 01 13*	Solvents.
15 01 10*	Packaging containing residues of or contaminated by dangerous substances.

SECTION 14 Transport information

14.1 UN number

1263

14.2 Proper shipping name

ADR/RID
PAINT RELATED MATERIAL)

Tunnel restriction code (road)
(D/E)

IMDG / IATA
PAINT RELATED MATERIAL (- 17 °C c.c.)

14.3 Transport hazard class(es)
3 (flammable liquids)

14.4 Packing group
II (substances presenting medium danger)

14.5 Environmental hazards
Not applicable.

14.6 Special precautions for user
See sections 6 – 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code
Not applicable.

ADR/RID / IMDG / IATA	Not applicable.
Marine Pollutant	Not applicable.

14.6 Special precautions for user

Not applicable.

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

Regulations of the EU
Denomination in Annex I of the Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances
Observe threshold values of category of substance P5c.

Regulation (EU) No 528/2012 for the marketing of biocidal products
Not applicable.

Regulation (EC) No 648/2004 (Regulation concerning detergents)
Not applicable.

Directive 1999/13/EC for the limitation of emissions of volatile organic compounds
Applicable.

Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding
Applicable.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work
Applicable.

Directive 94/33/EC on the protection of young people at work
Not applicable.

German Regulations
Technical instructions on maintaining air purity
Water hazard class
Storage class according to TRGS 510

Other regulations, restrictions and prohibition ordinances
Observe the information sheets M 004 and M 017 of the BG Chemie.

15.2 Chemical safety assessment
This mixture was not subject to a safety assessment.

SECTION 16 Other information

The wording of the classification codes of section 3

Flam. Liq. 2; H225	Flammable liquids, Hazard Category 2; Highly flammable liquid and vapour.
Eye Irrit. 2; H319	Serious eye damage/eye irritation, Hazard Category 2; Causes serious eye irritation.
Eye Irrit. 2; H319	Serious eye damage/eye irritation, Hazard Category 2; Causes serious eye irritation.
STOT SE 3; H336	Specific target organ toxicity — Single exposure, Hazard Category 3, Narcosis; May
STOT SE 3; H336	Specific target organ toxicity — Single exposure, Hazard Category 3, Narcosis; May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

Notes
The classification codes only apply to the pure substances and do not declare necessarily the classification of the mixture. The classification and the labelling of the mixture are specified in section 2.
This safety data sheet is developed on basis of the valid EU regulations and German regulations. It shows the present state of the knowledge and is no contractual warranty of quality properties of the product.

Abbreviations

AGS	Committee on Hazardous Substances.
AGW	Permitted exposure limit values.
BG Chemie	Employer's liability insurance association of the German chemical industry
BGW	Permitted biological limit value at work.
DFG	German Research Council (Committee on Occupational Exposure Limits).
EU	European Union.
LGK	Storage class.

PBT	Persistent, bioaccumulative and toxic.
TRGS	Technical regulation for dangerous substances.
vPvB	Very persistent and very bioaccumulative.
WGK	Water hazard class.
Y	No harm to the unborn child, if values of AGW and BGW are kept.

Additional information

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product. We exclude each liability for damages, that can appear in improper intercourse or contact with these chemicals.

This security data sheet replaces all previous editions. Validly from edition date.

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