Conforms to Regulation (EC) No. 1907/2006 (REA	CH), Annex II, as amended by Commission	n Regulation (EU)
2015/830 - Europe			
Date of issue/ Date of revision	: 6/2/2021	Date of previous issue	: 1/30/2018

TIKKURILA

SAFETY DATA SHEET

DICCO CRYSTAL FF 30

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

1.1 Product identifier

Product name

: DICCO CRYSTAL FF 30

Product description

: A two-component acid catalysed paint.

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

Recommended use: Painting work

1.3 Details of the supplier of the safety data sheet

 Manufacturer or Distributor

 Tikkurila Oyj

 P.O. Box 53

 FI-01301 VANTAA

 FINLAND

 Telephone +358 20 191 2000

 e-mail address of person

 responsible for this SDS

 Product Safety,

 e-mail: productsafety@tikkurila.com

1.4 Emergency telephone number

 Telephone number
 : 112 (24h)

 Supplier or Manufacturer
 : Tikkurila Oyj +358 20 191 2000 (GMT +2) Mon-Fri 8-16

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Mam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

2.2 Label elements

Hazard pictograms



Signal word Hazard statements

- : Danger
- : H226 Flammable liquid and vapor.
- H318 Causes serious eye damage.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.

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Precautionary statements					
General	:	Not applic	cable.		
Prevention	:	sources. I P261 - Av P280 - W	eep away from heat, No smoking. void breathing mist/va 'ear protective gloves case of inadequate	apors/spray. s/clothing and eye/fa	
Response	:	minutes. I		ses, if present and e	cautiously with water for several easy to do. Continue rinsing. n.
Storage	:	Not applic	cable.		
Disposal	:	Not applic	cable.		
Hazardous ingredients	:	p-butyl ac iso-butan			
Supplemental label elements	:	Contains	glyoxal. May produc	e an allergic reactio	on.
		•	Hazardous respirabl pray or mist.	e droplets may be f	ormed when sprayed. Do not

2.3 Other hazards

Other hazards which do : None known. not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture				
			Classification	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Notes
p≁butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-
iso-butanol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≤14	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-
n-butanol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	≤5	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤3	Flam. Liq. 3, H226 STOT SE 3, H336	-
nitrocellulose (< 12,6 % N)	CAS: 9004-70-0	≤3	Expl. 1.1, H201	-
2-ethoxy-1-methylethyl acetate	REACH #: 01-2119475116-39 EC: 259-370-9 CAS: 54839-24-6 Index: 603-177-00-8	≤3	Flam. Liq. 3, H226 STOT SE 3, H336	-
glyoxal	EC: 203-474-9 CAS: 107-22-2 Index: 605-016-00-7	≤0.3	Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Muta. 2, H341	В
methanol	REACH #: 01-2119433307-44 EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X	≤0.3	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370	-

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		See Section 16 for the full text of the H statements declared above.	
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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 or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

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

Notes, if applicable, refer to Notes given in Annex VI of 1272/2008/EC.

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. Show this safety data sheet or label to the doctor if possible. 	
Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with plenty of lukewarm water, keeping eyelids open. Continue to rinse for at least 20 minutes. Get medical attention immediately.	
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. Get medical attention. 	
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. 	
Ingestion	: If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Remove to fresh air and keep at rest in a position comfortable for breathing. Do NOT induce vomiting.	

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye damage. Causes skin irritation. May cause drowsiness or dizziness. See Section 11 for more detailed information on health effects and symptoms. Contains: glyoxal May produce an allergic reaction.

4.3 Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire. Recommended: Alcohol resistant foam, CO ₂ , powders or water spray/mist.
Unsuitable extinguishing media	: Do not use a direct water jet that could spread the fire.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: Flammable liquid and vapor. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Hazardous combustion products	: When exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

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5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Do not release runoff from fire to drains or watercourses.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SECTION 6: Acciden	tal release measures
6.1 Personal precautions, protective equipment and emergency procedures	: Shut off all ignition sources. No flares, smoking or flames in hazard area. Provide adequate ventilation. Avoid breathing vapor or mist. Avoid contact with skin and eyes. See Section 8 for information on appropriate personal protective equipment.
6.2 Environmental precautions	: Do not allow to enter drains, water courses or soil.
6.3 Methods and materials	: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth vermiculite or diatomaceous earth and place in container for disposal

emergency procedures	adequate ventilation. Avoid breathing vapor or mist. Avoid contact with skin and eyes. See Section 8 for information on appropriate personal protective equipment
6.2 Environmental precautions	: Do not allow to enter drains, water courses or soil.
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. 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.

SECTION 7: Handling and storage

7.1 Precautions for safe : handling	✓ apors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. Isolate from sources of heat, sparks and open flame. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. No sparking tools should be used. Skin contact with the product and exposure to spray mist and vapor should be avoided. Avoid contact with skin and eyes. Avoid inhalation of dust from sanding. Wear appropriate respirator when ventilation is inadequate. See Section 8 for information on appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled and stored. Wash hands before breaks and immediately after handling the product.
7.2 Conditions for safe : storage, including any incompatibilities	Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store and use away from heat, sparks, open flame or any other ignition source. No smoking. Keep container tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Recommended storage temperature is +5°C+25°C. Store in accordance with local regulations.
7.3 Specific end use(s) :	None.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

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Product/ingredient name	Exposure limit values		
r butyl acetate	EU OEL (Europe, 10/2019). Notes: list of indicative occupational exposure limit values STEL: 150 ppm 15 minutes. STEL: 723 mg/m ³ 15 minutes. TWA: 241 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.		
2-methoxy-1-methylethyl acetate	EU OEL (Europe, 10/2019). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 275 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m ³ 15 minutes.		
methanol	EU OEL (Europe, 10/2019). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 200 ppm 8 hours. TWA: 260 mg/m³ 8 hours.		

procedures

Recommended monitoring : 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.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof ventilation equipment. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn (see Personal protection for both components). Provide a readily-accessible eyewash facility. Comply with the health and safety at work laws.

Individual protection measures

Eye/face protection	: Wear eye/face protection (EN166).
Hand protection	 Wear protective gloves. Gloves should be replaced regularly and if there is any sign of damage to the glove material. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Recommended glove material (EN374): < 1 hour (breakthrough time): butyl rubber > 8 hours (breakthrough time): laminated foil Not recommended: PVC or natural rubber (latex) gloves
Skin protection	: Wear suitable protective clothing. This product is classified as flammable. If necessary, personnel should wear antistatic clothing made of natural fibers or of high-temperature-resistant synthetic fibers.
Respiratory protection	: If ventilation is inadequate, use respirator that will protect against organic vapor and dust/mist. During spray-application use respirators with combination filter A/P3 (EN405:2001). Wear a half mask or full face respirator with gas and vapor filter A and dust filter P2 during sanding (EN140:1998, EN405:2001). During continuous and long-term work the use of motor-driven or air-fed respirators is recommended (EN12941:1998). Be sure to use an approved/certified respirator or equivalent. Check that mask fits tightly and change filter regularly.

SECTION 9: Physical and chemical properties

9.1 Information on basic physica	l a	nd chemical properties
Appearance		
Physical state	:	Liquid.
Color	:	Coloured
Odor	:	Strong.
Odor threshold	:	Not relevant for the hazard assessment of the product.
рН	:	Not relevant for the hazard assessment of the product.
Melting point/freezing point	:	<-90°C (n-butyl acetate)
Initial boiling point and boiling range	:	126°C (n-butyl acetate)
Flash point	:	23 °C (n-butyl acetate)
Evaporation rate	:	1 (butyl acetate = 1) (n-butyl acetate)
Flammability (solid, gas)	;	Not applicable. Product is a liquid.
Upper/lower flammability or explosive limits	:	Lower: 1.4% (n-butyl acetate) Upper: 7.6% (n-butyl acetate)
Vapor pressure	:	1.5 kPa [room temperature] (n-butyl acetate)
Vapor density	:	4 (n-butyl acetate)
Density	:	1.23 g/cm ³
Solubility(ies)		insoluble in water.
Partition coefficient: n-octanol/ water	:	Not applicable.
Auto-ignition temperature	:	415°C (n-butyl acetate)
Decomposition temperature	:	Not relevant for the hazard assessment of the product.
Viscosity	:	>60 s [ISO 6mm cup]
Explosive properties	:	No explosive ingredients present.
Oxidizing properties	:	No oxidizing ingredients present.
Particle characteristics Median particle size	:	Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	:	See Section 10.5.
10.2 Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
10.3 Possibility of hazardous reactions	:	May present an explosion hazard when material is suspended in air in confined areas or equipment and subjected to spark, heat or flame.
10.4 Conditions to avoid	:	Avoid extreme heat and freezing. Avoid all possible sources of ignition (spark or flame).
10.5 Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents strong acids strong alkalis
10.6 Hazardous decomposition products	:	When exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

There is no testdata available on the product itself.

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. Formaldehyde is released during curing. Formaldehyde may cause irreversible effects, is irritating to the mucous membranes and may cause skin sensitization.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<mark>ø-</mark> butanol	LD50 Oral	Rat	790 mg/kg	-

Not classified.

Irritation/Corrosion

Causes skin irritation. Causes serious eye damage.

Sensitization

Not classified.

The product contains sensitizing substances mentioned in sections 2 and 3.

Mutagenicity

Not classified.

Carcinogenicity

Not classified.

Reproductive toxicity

Not classified.

Teratogenicity

Not classified.

Specific target organ toxicity (single exposure)

May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure)

Not classified.

Aspiration hazard

Not classified.

SECTION 12: Ecological information

Ecological testing has not been conducted on this product. Do not allow to enter drains, water courses or soil.

The product is not classified as environmentally hazardous according to Regulation (EC) 1272/2008.

12.1 Toxicity

: No specific data.

Not available.

12.2 Persistence and degradability

: No specific data.

12.3 Bioaccumulative potential

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Product/ingredient name	LogPow	Bioconcentration factor [BCF]	Potential
methanol	-0.77	<10	low
glyoxal	-1.62	3.2	low
2-ethoxy-1-methylethyl acetate	0.76	-	low
2-methoxy-1-methylethyl acetate	1.2	-	low
n-butanol	1	-	low
iso-butanol	1	-	low
n-butyl acetate	2.3	15	low

12.4 Mobility in soil

Soil/water partition coefficient (K _{oc})	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : Not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

: Gather residues into waste containers. Liquid residue and cleaning liquids are hazardous waste and must not be emptied into drains or sewage system, but handled in accordance with national regulations. Product residues should be left at special companies which have permission for gathering this kind of wastes.

European waste catalogue (EWC)

Waste code	Waste designation		
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances		

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

Packaging

Methods of disposal	: Empty packaging should be recycled or disposed of in accordance with national
	regulations.

Special precautions

: None.

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3

14.4 Packing group			111		
14.5 Environmenta hazards	No.	No.	No.		
Additional info	rmation				
ADR/RID		450 L according to 2.2	viscous liquid is not sub 2.3.1.5.1.	ject to regulation in	
IMDG	 Emergency schedules F-E,S-E <u>Viscous liquid exception</u> This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5. 				
14.6 Special precautions for user	upright and secu		ways transport in closed s transporting the produ		
14.7 Transport in bulk according to IMO instruments	: Not available.				

SECTION 15: Regulatory information

15.1	Safety,	health and	environmental	regulations/l	egislation	specific f	for the substa	nce or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Other EU regulations Europe inventory : Not determined. Persistent Organic Pollutants Not listed.

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

SECTION 16: Other information

Indicates information that has changed from previously issued version.

	5 1 ,	
Abbreviations and	: ATE = Acute Toxicity Estimat	e
acronyms	CLP = Classification, Labellin 1272/2008]	g and Packaging Regulation [Regulation (EC) No.
	DMEL = Derived Minimal Effe	ect Level
	DNEL = Derived No Effect Le	evel
	EUH statement = CLP-specif	ic Hazard statement
	PBT = Persistent, Bioaccumu	Ilative and Toxic
	PNEC = Predicted No Effect	Concentration
	RRN = REACH Registration	Number
	vPvB = Very Persistent and \	/ery Bioaccumulative
Procedure used to deriv	ve the classification according to Re	gulation (EC) No. 1272/2008 [CLP/GHS]
01		have the section of

Classification

Fam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336 Justification

On basis of test data Calculation method Calculation method Calculation method

	ss explosion hazard.	
H226Flammable liquH301Toxic if swallowH302Harmful if swallowH311Toxic in contactH311Toxic if inhaledH312Harmful if inhaH318Causes seriouH319Causes seriouH315Causes skin inH317May cause anH336May cause droH341Suspected of dH370Causes damageEUH066Repeated exponention	ble liquid and vapor. uid and vapor. wed. llowed. ct with skin. d. led. s eye damage. s eye irritation. ritation. allergic skin reaction. piratory irritation. wsiness or dizziness. causing genetic defects. ge to organs. osure may cause skin dryne	v
: Acute Tox. 3 Acute Tox. 4 Expl. 1.1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Muta. 2 Skin Irrit. 2 Skin Sens. 1 STOT SE 1	SERIOUS EYE DAMAG FLAMMABLE LIQUIDS FLAMMABLE LIQUIDS GERM CELL MUTAGEN SKIN CORROSION/IRR SKIN SENSITIZATION - SPECIFIC TARGET OR EXPOSURE) - Category SPECIFIC TARGET OR	Aregory 4 1.1 E/ EYE IRRITATION - Category 1 E/ EYE IRRITATION - Category 2 - Category 2 - Category 3 NICITY - Category 2 NICITY - Category 2 - Category 1 GAN TOXICITY (SINGLE 1 GAN TOXICITY (SINGLE
: 6/2/2021	, e.e.e., earlyger,	-
: 1/30/2018 : 2		
	 H226 Flammable liquer H301 Toxic if swallower H302 Harmful if swallower H311 Toxic in contact H311 Toxic if inhaled H312 Harmful if inhate H318 Causes seriouer H319 Causes seriouer H315 Causes skin in H317 May cause an H335 May cause droper H336 May cause droper H3370 Causes damager EUH066 Repeated exposite Acute Tox. 3 Acute Tox. 4 Expl. 1.1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 2 Flam. Liq. 3 Muta. 2 Skin Irrit. 2 Skin Sens. 1 STOT SE 3 6/2/2021 1/30/2018 	 H226 Flammable liquid and vapor. H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H331 Toxic if inhaled. H332 Harmful if inhaled. H332 Harmful if inhaled. H318 Causes serious eye damage. H319 Causes serious eye irritation. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H336 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H341 Suspected of causing genetic defects. H370 Causes damage to organs. EUH066 Repeated exposure may cause skin drynd. Acute Tox. 3 ACUTE TOXICITY - Catter and the explosion of the explosion

Notice to reader

This Safety Data Sheet is prepared in accordance with Annex II (EU) No 830/2015 to Regulation (EC) No 1907/2006 (REACH). The information contained in this Safety Data Sheet is based on the present state of knowledge and current EU and national 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.