

Version 1.0	MSDS Number: H53288	Revision Date: 13.05.2015
SECTION 1: Identification o	f the substance/mixture and o	f the company/undertaking
1.1 Product identifier		
Trade name	: DICROM DX-914	
1.2 Relevant identified uses of	the substance or mixture and us	es advised against
Use of the Sub- stance/Mixture	: Solvent-borne coatings, Bas	e coating
Recommended restrictions on use	: For use in industrial installati only.	ons or professional treatment
1.3 Details of the supplier of th	ne safety data sheet	
Company	: Roberlo s.a. Ctra. Nacional II, Km. 706,5 17457 Riudellots de la Selva Spain	a
Telephone	: +34972478060	
Telefax	: +34972477394	
E-mail address of person responsible for the SDS	: msds@roberlo.com	

1.4 Emergency telephone number

+34 972 478060 (8:00-12:45 / 14:15-17:30 h) ROBERLO (Spain) (GMT + 1:00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 127 Flammable liquids, Category 3	72/2008) H226: Flammable liquid and vapour.
Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage/eye irritation, Cate- gory 1	H318: Causes serious eye damage.
Specific target organ toxicity - repeated exposure, Category 3	H336: May cause drowsiness or dizziness.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.



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Classification (67/548/EEC,	1999/45/EC)	
Flammable	R10: Flammable.	
Irritant	R38: Irritating to skin.	
	R41: Risk of serious	damage to eyes.
	R67: Vapours may ca ness.	ause drowsiness and dizzi-
	R52/53: Harmful to a	quatic organisms, may cause

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :		
Signal word :	Danger	
Hazard statements :	H226 H315 H318 H336 H412	Flammable liquid and vapour. Causes skin irritation. Causes serious eye damage. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting ef- fects.
Precautionary statements :	Prevention: P264 P280 P284	Wash hands thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection. In case of inadequate ventilation wear res- piratory protection.
	Response: P303 + P361 + P3	353 IF ON SKIN (or hair): Take off immedi- ately all contaminated clothing. Rinse skin with water/shower.
	P352 P305 + P351 + P3	Wash with plenty of water.
	Disposal: P273 P501a	Avoid release to the environment. This material and its container must be disposed of in a safe way.



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Hazardous components which must be listed on the label: butan-1-ol

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Paint

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
n-butyl acetate	123-86-4 204-658-1 01- 2119485493-29	R10 R66 R67	Flam. Liq.3; H226 STOT SE3; H336	>= 30 - < 50
butan-1-ol	71-36-3 200-751-6 01- 2119484630-38	R10 Xn; R22 Xi; R37/38-R41 R67	Flam. Liq.3; H226 Acute Tox.4; H302 Skin Irrit.2; H315 Eye Dam.1; H318 STOT SE3; H335, H336	>= 5 - < 10
xylene (mixture of iso- mers)	1330-20-7 215-535-7 01- 2119488216-32	R10 Xn; R20/21 Xi; R38	Flam. Liq.3; H226 Acute Tox.4; H332 Acute Tox.4; H312 Skin Irrit.2; H315 Eye Irrit.2; H319 STOT SE3; H335 STOT RE2; H373 Asp. Tox.1; H304	>= 5 - < 10
Solvent naphtha (petro- leum), light arom.	64742-95-6 265-199-0 01- 2119455851-35	Xn; R65 Xi; R37 N; R51/53 R10 R66 R67	Flam. Liq.3; H226 Asp. Tox.1; H304 STOT SE3; H335, H336 Aquatic Chronic2; H411	>= 2.5 - < 10
ethylbenzene	100-41-4 202-849-4	F; R11 Xn; R20	Flam. Liq.2; H225 Acute Tox.4; H332 STOT RE2; H373 Asp. Tox.1; H304	>= 1 - < 10

For explanation of abbreviations see section 16.



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SECTION 4: First aid measures

4.1 Description of first aid measu	Ires
General advice	: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	: Move to fresh air. Consult a physician after significant exposure.
In case of skin contact	 Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
In case of eye contact	 Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	 Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Obtain medical attention.
4.2 Most important symptoms an None known.	d effects, both acute and delayed
4.3 Indication of any immediate r	nedical attention and special treatment needed
Treatment	: No information available.
SECTION 5: Firefighting meas	sures
5.1 Extinguishing media	
Suitable extinguishing media	: Alcohol-resistant foam Dry chemical
5.2 Special hazards arising from	the substance or mixture
Hazardous combustion prod- ucts	: No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.
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Further information : Collect contaminated fire extinguishing water separately. This



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	must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored sepa rately in closed containments.		
SECTION 6: Accidental relea	ase measures		
6.1 Personal precautions, prote	ective equipment and emergency	y procedures	
Personal precautions		: Use personal protective equipment. Ensure adequate ventilation.	
6.2 Environmental precautions			
Environmental precautions	 Try to prevent the material fr courses. If the product contaminates respective authorities. 	rom entering drains or water rivers and lakes or drains inform	
6.3 Methods and material for co	ontainment and cleaning up		
Methods for cleaning up	: Soak up with inert absorben acid binder, universal binder Keep in suitable, closed con	, sawdust).	

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 and storage

7.1 Precautions for safe handling

Advice on safe handling	or personal p moking, eati lication area	with skin and eyes. protection see section 8. ng and drinking should be prohibited in the ap- se water in accordance with local and national
Advice on protection against fire and explosion		on of aerosol. Keep away from sources of igni- king. Take measures to prevent the build up of harge.
Hygiene measures	ractice. Whe	ordance with good industrial hygiene and safety n using do not eat or drink. When using do not hands before breaks and at the end of workday.



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7.2 Conditions for safe storage	, including any incompatibilities	
Requirements for storage areas and containers	: No smoking. Keep container tightly closed in a dry and well- ventilated place.	
Storage period	: 18 Months	
Other data	: No decomposition if stored a	nd applied as directed.
7.3 Specific end use(s)		
Specific use(s)	: For the use of this product do dations apart from that alread	o not exist particular recommen- dy indicated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
n-butyl acetate	123-86-4	TWA	150 ppm 724 mg/m3	GB EH40
n-butyl acetate	123-86-4	STEL	200 ppm 966 mg/m3	GB EH40
butan-1-ol	71-36-3	STEL	50 ppm 154 mg/m3	GB EH40
Further information			e assigned substances are ta sorption will lead to systemic	
xylene (mixture of isomers)	1330-20-7	TWA	50 ppm 220 mg/m3	GB EH40
Further information			e assigned substances are to systemic sorption will lead to systemic	
xylene (mixture of isomers)	1330-20-7	STEL	100 ppm 441 mg/m3	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
xylene (mixture of isomers)	1330-20-7	TWA	50 ppm 221 mg/m3	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
xylene (mixture of isomers)	1330-20-7	STEL	100 ppm 442 mg/m3	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
ethylbenzene	100-41-4	TWA	100 ppm 442 mg/m3	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
ethylbenzene	100-41-4	STEL	200 ppm 884 mg/m3	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
ethylbenzene	100-41-4	TWA	100 ppm 441 mg/m3	GB EH40



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Further information	Can be absorbed through skin. The ass there are concerns that dermal absorpt		
ethylbenzene		5 ppm GB EH40 2 mg/m3	
Further information	Can be absorbed through skin. The ass there are concerns that dermal absorpt		
Derived No Effect L	evel (DNEL) according to Regulation	(EC) No. 1907/2006:	
n-butyl acetate	: End Use: Workers Exposure routes: Inhalati Potential health effects: L Value: 480 mg/m3	ion _ong-term systemic effects	
butan-1-ol	: End Use: Workers Exposure routes: Inhalati Potential health effects: L Value: 310 mg/m3		
xylene	Value: 77 mg/m3	ion _ong-term systemic effects	
Low boiling point nap unspecified	Exposure routes: Inhalati	ion _ong-term systemic effects	
ethylbenzene	 End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 77 mg/m3 		
2 Exposure controls			
Personal protective	equipment		
Eye protection	: Eye wash bottle with pure Tightly fitting safety goggle		
Hand protection			
Remarks	to satisfy the specifications	he selected protective gloves have s of EU Directive 89/686/EEC and red from it. Before removing gloves water.	
Skin and body proted	Choose body protection ac	ccording to the amount and concen- ubstance at the work place.	
Respiratory protectio	n : In the case of vapour form	ation use a respirator with an ap-	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties



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Appearance	: liquid, viscous	
Colour	: green	
Odour	: characteristic	
Melting point/range	: Not applicable	
Boiling point/boiling range	: not determined	
Flash point	: 29 °C Method: ISO 1523, closed cup Setaflash	
Upper explosion limit	: not determined	
Lower explosion limit	: not determined	
Vapour pressure	: not determined	
Density	: 0.97 g/cm3 (20 °C) Method: ISO 2811-1	
Solubility(ies) Water solubility	: not determined	
Viscosity Viscosity, dynamic	: 245 mPa.s (20 °C) Method: ISO 2555	
Viscosity, kinematic	: > 20.5 mm2/s (40 °C)	

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if used as directed.

Vapours may form explosive mixture with air.



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10.4 Conditions to avoid		
Conditions to avoid	: Heat, flames and sparks.	
10.5 Incompatible materials		
Materials to avoid	: Oxidizing agents Strong acids and strong bases	
10.6 Hazardous decomposition	products	
Hazardous decomposition products	: Nitrogen oxides (NOx)	

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute to	oxicity
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Product:	
Acute oral toxicity	: Acute toxicity estimate : > 2,000 mg/kg Method: Calculation method
Acute inhalation toxicity	: Acute toxicity estimate : > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Components:	
n-butyl acetate:	
Acute oral toxicity	: LD50 Oral (Rat): 10,768 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	: LC50 (Rat): 23.4 mg/l
	Exposure time: 4 h
	Method: OECD Test Guideline 403
Acute dermal toxicity	: LD50 (Rabbit): 17,600 mg/kg
	Method: OECD Test Guideline 402
butan-1-ol:	
Acute oral toxicity	: LD50 Oral (Rat): 790 mg/kg
	Method: OECD Test Guideline 401
Acute inhalation toxicity	: LC50 (Rat): 24.6 mg/l
	Exposure time: 4 h Method: OECD Test Guideline 403
Acute dermal toxicity	: LD50 (Rabbit): 3,430 mg/kg Method: OECD Test Guideline 402
	Method. OECD Test Guideline 402



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xylene (mixture of isomers): Acute oral toxicity	: LD50 Oral (Rat): 4,300 mg/kg Method: OECD Test Guideline 4	401
Acute inhalation toxicity	: LC50 (Rat): 22.08 mg/l Exposure time: 4 h Method: OECD Test Guideline 4	403
Acute dermal toxicity	: Acute toxicity estimate : 1,100 n Method: Converted acute toxicit	
Solvent naphtha (petroleum) Acute oral toxicity	, light arom.: : LD50 Oral (Rat): 3,592 mg/kg Method: OECD Test Guideline 4	401
Acute inhalation toxicity	: LC50 (Rat): > 20 mg/l Exposure time: 4 h	
Acute dermal toxicity	: LD50 (Rabbit): 3,160 mg/kg Method: OECD Test Guideline	402
ethylbenzene: Acute oral toxicity	: LD50 Oral (Rat): 3,500 mg/kg Method: OECD Test Guideline	401
Acute inhalation toxicity	: LC50 (Rat): 17.4 mg/l Exposure time: 4 h Method: OECD Test Guideline	403
Acute dermal toxicity	: LD50 (Rabbit): 15,400 mg/kg Method: OECD Test Guideline	402
Skin corrosion/irritation		
Product: Result: Skin irritation		
Serious eye damage/eye irrit	ation	
<u>Product:</u> Remarks: Causes serious eye	damage.	
Respiratory or skin sensitisa	tion	
Product: Remarks: Based on available of	data, the classification criteria are no	ot met.
Germ cell mutagenicity		
<u>Product:</u> Germ cell mutagenicity- As-	: Based on available data, the cla	assification criteria are not met.
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DICROM DX-914		
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sessment		
Carcinogenicity		
Product:		
Carcinogenicity - Assess- ment	: Based on available data, the	classification criteria are not met.
Reproductive toxicity		
Product:		
Reproductive toxicity - As- sessment	: Based on available data, the	classification criteria are not met.
STOT - single exposure		
Product: Assessment: The substance posure, category 3 with narc	e or mixture is classified as specific cotic effects.	target organ toxicant, single ex-
STOT - repeated exposure		
<u>Product:</u> Remarks: Based on availabl	e data, the classification criteria are	e not met.
Aspiration toxicity		
Product:		
Based on available data, the	e classification criteria are not met.	
Further information		
Product:		
	rexposure may be headache, dizzir antially above the TLV value may ca	
SECTION 12: Ecological infe	ormation	

12.1 Toxicity

Components:	
n-butyl acetate:	
Toxicity to fish	: LC50 (Fish): 18 mg/l Exposure time: 96 h
	Method: OECD Test Guideline 203



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Toxicity to daphnia and other aquatic invertebrates		EC50 (Daphnia (water flea)): 32 mg Exposure time: 48 h Method: OECD Test Guideline 202	
Toxicity to algae		EC50 (Algae): 675 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
butan-1-ol:			
Toxicity to fish		LC50 (Fish): 1,376 mg/l Exposure time: 96 h Method: OECD Test Guideline 203	
Toxicity to daphnia and other aquatic invertebrates		EC50 (Daphnia (water flea)): 1,328 Exposure time: 48 h Method: OECD Test Guideline 202	mg/l
Toxicity to algae		EC50 (Algae): 500 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
xylene (mixture of isomers):			
Toxicity to fish		LC50 (Fish): 14 mg/l Exposure time: 96 h Method: OECD Test Guideline 203	
Toxicity to daphnia and other aquatic invertebrates		EC50 (Daphnia (water flea)): 16 mg Exposure time: 48 h Method: OECD Test Guideline 202	
Solvent naphtha (petroleum)), lig	ht arom.:	
Toxicity to fish	:	LC50 (Fish): 9.2 mg/l Exposure time: 96 h Method: OECD Test Guideline 203	
Toxicity to daphnia and other aquatic invertebrates		EC50 (Daphnia (water flea)): 3.2 m Exposure time: 48 h Method: OECD Test Guideline 202	g/l
Toxicity to algae		EC50 (Algae): 2.9 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
ethylbenzene:			
Toxicity to fish		LC50 (Fish): 12 mg/l Exposure time: 96 h Method: OECD Test Guideline 203	
Toxicity to daphnia and other aquatic invertebrates		EC50 (Daphnia (water flea)): 1.8 m Exposure time: 48 h Method: OECD Test Guideline 202	g/l



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Toxicity to algae	: EC50 (Algae): 33 mg/l Exposure time: 72 h Method: OECD Test Guideline	201
12.2 Persistence and degradab	ility	
12.3 Bioaccumulative potential No data available		
12.4 Mobility in soil No data available		
12.5 Results of PBT and vPvB a	assessment	
Product:		
Assessment	 This substance/mixture contain to be either persistent, bioaccu very persistent and very bioacco 0.1% or higher. 	mulative and toxic (PBT), or
12.6 Other adverse effects		
Product:		
Additional ecological infor- mation	 An environmental hazard cann unprofessional handling or disp ganisms, may cause long-term environment. 	oosal., Harmful to aquatic or-

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Product	 The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	 Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number

ADR

: UN 1263



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IMDG	: UN 1263	
	: UN 1263	
4.2 UN proper shipping name	. UN 1203	
ADR	: PAINT	
IMDG	: PAINT	
ΙΑΤΑ	: Paint	
4.3 Transport hazard class(es)		
ADR	: 3	
IMDG	: 3	
ΙΑΤΑ	: 3	
4.4 Packing group		
ADR Packing group Classification Code Hazard Identification Numbe Labels IMDG Packing group Labels EmS Code	: III : F1 r : 33 : 3 : 3 : III : 3 : F-E, <u>S-E</u>	
IATA Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels	: 366 : Y344 : III : Flammable Liquids	
4.5 Environmental hazards		
ADR Environmentally hazardous	: no	
IMDG Marine pollutant	: no	
4.6 Special precautions for us Not applicable	er	



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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

	g dangerede edeelaneee.	Quantity 1	Quantity 2
P5c	FLAMMABLE LIQUIDS	5,000 t	50,000 t
34	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (includ- ing diesel fuels, home heating oils and gas oil blending streams)	2,500 t	25,000 t
Other regulations	: The product is classified and directives or respective natio		dance with EC

15.2 Chemical Safety Assessment

Not applicable

SECTION 16: Other information

Full text of R-Phrases

R10	Flammable.	
R11	Highly flammable.	
R20	Harmful by inhalation.	
R20/21	Harmful by inhalation and in contact with skin.	
R22	Harmful if swallowed.	
R37	Irritating to respiratory system.	
R37/38	Irritating to respiratory system and skin.	
R38	Irritating to skin.	
R41	Risk of serious damage to eyes.	
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.	
Full toxt of H Statements		

Full text of H-Statements

H225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H312	Harmful in contact with skin.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	



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H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.	
H411	Toxic to aquatic life with long lasting effects.	

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.