

Version 1.0	MSDS Number: H53282	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 DP-820	
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.	ions 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 d	amage to eyes.
	R67: Vapours may can ness.	use drowsiness and dizzi-
	R52/53: Harmful to ag	uatic 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 meas	ures
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 a None known.	nd effects, both acute and delayed
4.3 Indication of any immediate Treatment	medical attention and special treatment needed : No information available.
SECTION 5: Firefighting mea	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-	: No hazardous combustion products are known
ucts	

5.3 Advice for firefighters

Special protective equipment	: In the event of fire, wear self-contained breathing apparatus.
for firefighters	

Further information : Collect contaminated fire extinguishing water separately. This



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	be disposed of in accordance	ted fire extinguishing water must e with local regulations. f fire, cans should be stored sepa-
SECTION 6: Accidental relea	se measures	
6.1 Personal precautions, prote	ctive equipment and emergency	procedures
Personal precautions	: Use personal protective equi Ensure adequate ventilation.	•
6.2 Environmental precautions		
Environmental precautions	 Try to prevent the material fro courses. If the product contaminates r respective authorities. 	om entering drains or water ivers and lakes or drains inform
6.3 Methods and material for co	ntainment and cleaning up	
Methods for cleaning up	: Soak up with inert absorbent acid binder, universal binder, Keep in suitable, closed cont	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	Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the a plication area. Dispose of rinse water in accordance with local and nation regulations.	•
Advice on protection against fire and explosion	Avoid formation of aerosol. Keep away from sources of ig tion - No smoking. Take measures to prevent the build up electrostatic charge.	
Hygiene measures	Handle in accordance with good industrial hygiene and sa practice. When using do not eat or drink. When using do r smoke. Wash hands before breaks and at the end of work	not



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7.2 Conditions for safe storage	7.2 Conditions for safe storage, including any incompatibilities				
Requirements for storage areas and containers	: No smoking. Keep container ventilated place.	tightly closed in a dry and well-			
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 to systemic 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 ta 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			e assigned substand sorption will lead to s	ces are those for which systemic toxicity.
ethylbenzene	100-41-4	STEL	125 ppm 552 mg/m3	GB EH40
Further information			e assigned substand sorption will lead to s	ces are those for which systemic toxicity.
mica	12001-26-2	TWA (Inhalable)	10 mg/m3	GB EH40
Further information	fractions of ai in accordance sampling and	rborne dust which wi with the methods d gravimetric analysis term exposure limit	Il be collected when escribed in MDHS14 of respirable and inl	halable dust are those sampling is undertaker /3 General methods for halable dust, Where no se times the long-term
mica	12001-26-2	TWA (Respirable)	0.8 mg/m3	GB EH40
Further information	fractions of ai in accordance sampling and	rborne dust which wi with the methods d gravimetric analysis term exposure limit	Il be collected when escribed in MDHS14 of respirable and inl	halable dust are those sampling is undertaker /3 General methods for nalable dust, Where no se times the long-term
Derived No Effect L n-butyl acetate		ccording to Regula End Use: Workers	tion (EC) No. 1907/	2006:
butan-1-ol		Value: 480 mg/m3 End Use: Workers Exposure routes: Inl	cts: Long-term syste	
xylene	:	End Use: Workers Exposure routes: Inl	halation cts: Long-term syste	mic effects
Low boiling point nap unspecified		End Use: Workers Exposure routes: Inl	halation cts: Long-term syste	mic effects
ethylbenzene		End Use: Workers Exposure routes: Inl	halation cts: Long-term syste	mic effects
2 Exposure controls				
Personal protective				
Eye protection		Eye wash bottle with Tightly fitting safety g		
			00	
Hand protection				



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	to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Before removing glove clean them with soap and water.	
Skin and body protection	: impervious clothing Choose body protection acco tration of the dangerous subs	ording to the amount and concen- stance at the work place.
Respiratory protection	: In the case of vapour formati proved filter.	ion use a respirator with an ap-

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid, viscous
Colour	: red
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	: 0.971 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)



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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.

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 : Nitrogen oxides (NOx) products

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity	
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



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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	
xylene (mixture of isomers):			
Acute oral toxicity	:	LD50 Oral (Rat): 4,300 mg/kg Method: OECD Test Guideline 401	
Acute inhalation toxicity	:	LC50 (Rat): 22.08 mg/l Exposure time: 4 h Method: OECD Test Guideline 403	
Acute dermal toxicity	:	Acute toxicity estimate : 1,100 mg/ł Method: Converted acute toxicity p	
Solvent naphtha (petroleum),	liç	ght arom.:	
Acute oral toxicity	:	LD50 Oral (Rat): 3,592 mg/kg Method: OECD Test Guideline 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	



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Skin corrosion/irritation

Product:

Result: Skin irritation

Serious eye damage/eye irritation

Product:

Remarks: Causes serious eye damage.

Respiratory or skin sensitisation

Product:

Remarks: Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Product:

Germ cell mutagenicity- As- : Based on available data, the classification criteria are not met. sessment

Carcinogenicity

Product:

Carcinogenicity - Assess- : Based on available data, the classification criteria are not met. ment

Reproductive toxicity

Product:

Reproductive toxicity - As- : Based on available data, the classification criteria are not met. sessment

STOT - single exposure

Product:

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

STOT - repeated exposure

Product:

Remarks: Based on available data, the classification criteria are not met.

Aspiration toxicity

Product:

Based on available data, the classification criteria are not met.



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Further information

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

<u>Components:</u> n-butyl acetate:				
Toxicity to fish	:	LC50 (Fish): 18 mg/l Exposure time: 96 h Method: OECD Test Guideline 203		
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia (water flea)): 32 mg/l 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 mg/l Exposure time: 48 h Method: OECD Test Guideline 202		
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/l Exposure time: 48 h Method: OECD Test Guideline 202		
Solvent naphtha (petroleum), light arom.:				
Toxicity to fish	:	LC50 (Fish): 9.2 mg/l Exposure time: 96 h		



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	Method: OECD Test Guideline 203	3
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia (water flea)): 3.2 m Exposure time: 48 h Method: OECD Test Guideline 202	-
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	3
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia (water flea)): 1.8 n Exposure time: 48 h Method: OECD Test Guideline 202	-
Toxicity to algae	: EC50 (Algae): 33 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
12.2 Persistence and degradabil i No data available	ty	
12.3 Bioaccumulative potential No data available		
12.4 Mobility in soil No data available		
12.5 Results of PBT and vPvB as	sessment	
Product:		
Assessment	 This substance/mixture contains ne to be either persistent, bioaccumul very persistent and very bioaccum 0.1% or higher. 	ative and toxic (PBT), or
12.6 Other adverse effects		
Product:		
Additional ecological infor- mation	: An environmental hazard cannot b unprofessional handling or disposa ganisms, may cause long-term adv environment.	al., Harmful to aquatic or-

SECTION 13: Disposal considerations

13.1 Waste treatment methods



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Product	cal or used container.	lowed to enter drains, water vaterways or ditches with chemi- able solutions to a licensed dis-
Contaminated packaging	: Empty remaining contents. Dispose of as unused produc Do not re-use empty containe Do not burn, or use a cutting	ers.

SECTION 14: Transport information

14.1 UN number

ADR	:	UN 1263
IMDG	:	UN 1263
ΙΑΤΑ	:	UN 1263
14.2 UN proper shipping name		
ADR	:	PAINT
IMDG	:	PAINT
ΙΑΤΑ	:	Paint
14.3 Transport hazard class(es)		
ADR	:	3
IMDG	:	3
ΙΑΤΑ	:	3
14.4 Packing group		
ADR Packing group Classification Code Hazard Identification Number Labels		III F1 33 3
IMDG Packing group Labels EmS Code	:	III 3 F-E, <u>S-E</u>
IATA Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group	:	Y344 III
Labels	•	Flammable Liquids



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14.5 Environmental hazards		
ADR Environmentally hazardous	: no	
IMDG Marine pollutant	: no	
14.6 Special precautions for use Not applicable	er	
14.7 Transport in bulk according	g to Annex II of MARPOL 73/78 a	and the IBC Code

Not applicable for product as supplied.

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.

P5c	FLAMMABLE LIQUIDS	Quantity 1 5,000 t	Quantity 2 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.



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R66	Repeated exposure may cause skin dryness or cracking.		
R67	Vapours may cause drowsiness and d	Vapours may cause drowsiness and dizziness.	
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 a	irways.	
H312	Harmful in contact with skin.		
H315	Causes skin irritation.		
H318	Causes serious eye damage.		
H319	Causes serious eye irritation.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H336	May cause drowsiness or dizziness.		
H373	May cause damage to organs through if inhaled.	prolonged or repeated exposure	
H411	Toxic to aquatic life with long lasting el	ffects.	

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.