



Printing date 15.10.2019 Version number 5 Revision: 08.05.2019

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

- · 1.1 Product identifier
- · Trade name: DUPLI-COLOR RAL ACRYL Klarlack
- · Article number: 158193, 158209
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

· Sector of Use

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

- · Product category PC9a Coatings and paints, thinners, paint removers
- · Process category

PROC7 Industrial spraying

PROC11 Non industrial spraying

- · Application of the substance / the mixture Clear coating material, Varnish
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

MOTIP DUPLI GmbH

Kurt Vogelsang Strasse 6

D-74855 Haßmersheim

Tel.: +49/6266/75-0

msds@de.motipdupli.com

- · Further information obtainable from: Department Product Safety
- · 1.4 Emergency telephone number:

Tel.:+49 6266-75-310

Fax +49 6266-75-362

(Mo - Th 08:00 am - 04:00 pm, Fr 08:00 am - 00:30 pm)

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)

Printing date 15.10.2019 Version number 5 Revision: 08.05.2019

Trade name: DUPLI-COLOR RAL ACRYL Klarlack

· Hazard pictograms



· Signal word Danger

· Hazard-determining components of labelling:

acetone

Hydrocarbons, C9, aromatics 2-methoxy-1-methylethyl acetate

n-butyl acetate

· Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H319 Causes serious eye irritation.H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

· 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.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe spray.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents / container in accordance with regional regulations.

$\cdot \textit{Additional information:}$

EUH066 Repeated exposure may cause skin dryness or cracking.

Buildup of explosive mixtures possible without sufficient ventilation.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49	acetone Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	25-<50%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1, H220 Press. Gas (Comp.), H280	12.5-<20%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32	butane Flam. Gas 1, H220 Press. Gas (Comp.), H280	12.5-<20%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226 STOT SE 3, H336	5-<10%
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(Contd. of page 1)

Printing date 15.10.2019 Version number 5 Revision: 08.05.2019

Trade name: DUPLI-COLOR RAL ACRYL Klarlack

		Contd. of page 2) 5-<10%
EC number: 905-588-0		
Index number: 601-022-00-9	9 🚯 Flam. Liq. 3, H226	
Reg.nr.: 01-2119488216-32	STOT RÉ 2, H373; Asp. Tox. 1, H304	
	Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
EC number: 918-668-5	Hydrocarbons, C9, aromatics	5-<10%
Reg.nr.: 01-2119455851-35	Flam. Liq. 3, H226 Asp. Tox. 1, H304	
	Aquatic Chronic 2, H411	
	♦ STOT SE 3, H335-H336	
CAS: 75-28-5	isobutane	5-<10%
EINECS: 200-857-2	♦ Flam. Gas 1, H220	
Index number: 601-004-00-0		
Reg.nr.: 01-2119485395-27	* **	
CAS: 123-86-4	n-butyl acetate	2.5-<5%
EINECS: 204-658-1	(b) Flam. Liq. 3, H226	
Index number: 607-025-00-1		
Reg.nr.: 01-2119485493-29	·	

· Additional information:

The content of Benzene (EINECS-Nr. 200-753-7) in the ingredients is less than 0,1% (Note P Annex 1A 1272/2008 EU), so the classification as carcinogen need not to apply.

xylene: Contains ethylbenzene CAS 100-41-4

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- · 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

 \cdot 5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

- · 5.3 Advice for firefighters -
- · Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

(Contd. on page 4)

Printing date 15.10.2019 Version number 5 Revision: 08.05.2019

Trade name: DUPLI-COLOR RAL ACRYL Klarlack

(Contd. of page 3)

· 6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · Information about fire and explosion protection:

Keep ignition sources away - Do not smoke.

Keep respiratory protective device available.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurised containers.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container tightly sealed.
- · Storage class: 2 B
- \cdot 7.3 *Specific end use*(s) *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters

· Ing	· Ingredients with limit values that require monitoring at the workplace:	
67-	67-64-1 acetone	
WE	L Short-term value: 3620 mg/m³, 1500 ppm	
	Long-term value: 1210 mg/m³, 500 ppm	
100	106-97-8 butane	

WEL Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm

Carc (if more than 0.1% of buta-1.3-diene)

108-65-6 2-methoxy-1-methylethyl acetate
WEL | Short-term value: 548 mg/m³, 100 ppm

Long-term value: 274 mg/m³, 50 ppm Sk

xylene

WEL Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm

Sk; BMGV

123-86-4 n-butyl acetate

WEL Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm

· Ingredients with biological limit values:

xylene

BMGV 650 mmol/mol creatinine

Medium: urine

Sampling time: post shift

Parameter: methyl hippuric acid

(Contd. on page 5)

Printing date 15.10.2019 Version number 5 Revision: 08.05.2019

Trade name: DUPLI-COLOR RAL ACRYL Klarlack

(Contd. of page 4)

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Avoid contact with the eyes.

· Respiratory protection:

Not necessary if room is well-ventilated.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:

In case of contact with spray dust protective gloves made of butyl shoud be used (min. 0.4 mm thick), e.g.

KCL Camatril, article no. 898 or similar products

Solvent resistant gloves

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the

degradation

· Material of gloves

Natural rubber, NR

Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the

· Penetration time of glove material

Butyl rubber gloves with a thickness of 0.4 mm are resistant to:

Acetone: 480 min Butyl acetate: 60 min Ethyl acetate: 170 min Xylene: 42 min

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be

· For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

Natural rubber, NR

· Eye protection:



Tightly sealed goggles

SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form:

Colour: According to product specification

· Odour: Characteristic

(Contd. on page 6)

Printing date 15.10.2019 Version number 5 Revision: 08.05.2019

Trade name: DUPLI-COLOR RAL ACRYL Klarlack

	(Contd. of page
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition Melting point/freezing point: Initial boiling point and boiling range.	Undetermined. : Not applicable, as aerosol.
Flash point:	Not applicable, as aerosol.
Flammability (solid, gas):	Not applicable.
Ignition temperature:	333 °C (631.4 °F)
Decomposition temperature:	Not determined.
Explosive properties:	Not determined.
Explosion limits: Lower: Upper:	1.5 Vol % 13 Vol %
Vapour pressure at 20 °C (68 °F):	8300 hPa (6225.5 mm Hg)
Density at 20 °C (68 °F): Relative density Vapour density Evaporation rate	0.7 g/cm³ (5.8 lbs/gal) Not determined. Not determined. Not applicable.
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
Solvent content: Organic solvents: VOC (EC)	88.5 % 628.4 g/l 88.50 %
Solids content: 9.2 Other information	0.3 % No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.

(Contd. on page 7)

Printing date 15.10.2019 Version number 5 Revision: 08.05.2019

Trade name: DUPLI-COLOR RAL ACRYL Klarlack

		(Contd. of page
· LD/LC50	values relev	ant for classification:
67-64-1 ac	etone	
Oral	LD50	5800 mg/kg (rat)
Dermal	<i>LD50</i>	>15800 mg/kg (rabbit)
Inhalative	LC50/4h	76 mg/l (rat)
108-65-62	-methoxy-1	-methylethyl acetate
Oral	LD50	8530 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50/4 h	>10000 mg/m3 (rat)
xylene		
Oral	LD50	3523 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4 h	29000 mg/m3 (rat)
Hydrocarb	ons, C9, ar	omatics
Oral	LD50	3592 mg/kg (rat)
Dermal	LD50	3160 mg/kg (rabbit)
123-86-4 n	-butyl aceto	ate
Oral	LD50	10800 mg/kg (rat) (OECD 401)
Dermal	LD50	>17600 mg/kg (rabbit)
Inhalative	LC50/4 h	>21 mg/m3 (rat)
Drive and inside the office to		

- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- $\cdot \textit{ Serious eye damage/irritation }$

Causes serious eye irritation.

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure

May cause drowsiness or dizziness.

- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxi	· Aquatic toxicity:	
67-64-1 acei	67-64-1 acetone	
LC50/96h	8300 mg/l (fish)	
EC50/96h	7200 mg/l (algae)	
LC50 / 48 h	48 h 8450 mg/l (crustacean (water flea))	
108-65-6 2-1	methoxy-1-methylethyl acetate	
EC50 / 48 h	EC50 / 48 h >500 mg/l (daphnia magna)	
LC50 / 96 h	LC50 / 96 h 100-180 mg/l (oncorhynchus mykiss / Regenbogenforelle)	
xylene		
EC50 / 48 h	EC50 / 48 h 7.4 mg/l (daphnia magna)	
LC50 / 96 h	LC50 / 96 h 13.5 mg/l (fish)	
	(Contd. on page 8)	

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Printing date 15.10.2019 Version number 5 Revision: 08.05.2019

Trade name: DUPLI-COLOR RAL ACRYL Klarlack

(Contd. of page 7)

Hydrocarbons, C9, aromatics

EC50 / 48 h | 3.2 mg/l (Daphnia magna)

EC50 / 72 h 2.75 mg/l (Pseudokirchneriella Subcapitata)

EC50 / 96 h | 9.2 mg/l (Regenbogenforelle)

- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- $\cdot \ \textbf{12.6 Other adverse effects} \ \textit{No further relevant information available}.$

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue		
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	
15 01 04	metallic packaging	
15 01 10*	packaging containing residues of or contaminated by hazardous substances	

- · Uncleaned packaging:
- · Recommendation:

Disposal must be made according to official regulations.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

Buildup of explosive mixtures possible without sufficient ventilation.

· 14.1 UN-Number	
· ADR, IMDG, IATA	UN1950
· 14.2 UN proper shipping name	
$\cdot ADR$	1950 AEROSOLS
\cdot $IMDG$	AEROSOLS
· IATA	AEROSOLS, flammable

(Contd. on page 9)

Printing date 15.10.2019 Version number 5 Revision: 08.05.2019

Trade name: DUPLI-COLOR RAL ACRYL Klarlack

	(Contd. of page
14.3 Transport hazard class(es)	
ADR	
2	
Class	2 5F Gases.
Label	2 3F Gases. 2.1
	2,1
IMDG, IATA	
2	
Class	2.1
Label	2.1
14.4 Packing group	
ADR, IMDG, IATA	not regulated
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Gases.
Danger code (Kemler):	warning. Guses.
EMS Number:	F- D , S - U
Stowage Code	SW1 Protected from sources of heat.
-	SW22 For AEROSOLS with a maximum capacity of 1 litr
	Category A. For AEROSOLS with a capacity above 1 litr
	Category B. For WASTE AEROSOLS: Category C, Clear
Samuel and Call	of living quarters.
Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litro Segregation as for class 9. Stow "separated from" class 1
	except for division 1.4.
	For AEROSOLS with a capacity above 1 litre:
	Segregation as for the appropriate subdivision of class 2.
	For WASTE AEROSOLS:
	Segregation as for the appropriate subdivision of class 2.
14.7 Transport in bulk according to Anne	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
Transport agtacom	Not permitted as Excepted Quantity
Transport category Tunnel restriction code	2 D
IMDG	11
Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E0
Excepted quantities (EQ)	Not permitted as Excepted Quantity
UN ''Model Regulation'':	UN 1950 AEROSOLS, 2.1

Printing date 15.10.2019 Version number 5 Revision: 08.05.2019

Trade name: DUPLI-COLOR RAL ACRYL Klarlack

(Contd. of page 9)

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · National regulations:

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

- · Other regulations, limitations and prohibitive regulations
- · Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

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 prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1: Flammable gases - Category 1

Aerosol 1: Aerosols - Category 1

Press. Gas (Comp.): Gases under pressure - Compressed gas

Flam. Liq. 2: Flammable liquids - Category 2

Flam. Liq. 3: Flammable liquids - Category 3

Acute Tox. 4: Acute toxicity - Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

(Contd. on page 11)

Page 11/11

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.10.2019 Version number 5 Revision: 08.05.2019

Trade name: DUPLI-COLOR RAL ACRYL Klarlack

(Contd. of page 10)

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· * Data compared to the previous version altered.