



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

Printing date 24.11.2016

Version number 2

Revision: 24.11.2016

Hazardous according to criteria of Australian Safety and Compensation Council

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

- **1.1 Product identifier**
- **Trade name: DUV-4535 NEWV PACK PANTONE RED 032 C**
- **MSDS no.** 185,946
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Printing inks
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Hubergroup Australia Pty. Ltd.
Unit 8, 450 Princes Highway
Noble Park
VIC 3174
- **Contact Point:**
Company Contact – Product Technical Manager
Business Hours - +61 (03) 9549 9300
After Hours – 0488 020 164
- Telephone: +61 (03) 9549 9300
Facsimile: +61 (03) 9701 0066

SECTION 2: Hazards identification

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



Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.
Aquatic Acute 3 H402 Harmful to aquatic life.
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.
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**
Polyester Acrylate

(Contd. on page 2)



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

Printing date 24.11.2016

Version number 2

Revision: 24.11.2016

Trade name: DUV-4535 NEWV PACK PANTONE RED 032 C

(Contd. of page 1)

Glycerol, propoxylated, esters with acrylic acid

Hazard statements

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H335 May cause respiratory irritation.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P273 Avoid release to the environment.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P321 Specific treatment (see on this label).
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P405 Store locked up.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards This information is provided by the present Material Safety Data Sheet.**Results of PBT and vPvB assessment**

- PBT:** Not applicable.
- vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients**3.2 Chemical characterisation: Mixtures****Dangerous components:**

Substances presenting a health or environmental hazard within the meaning of Regulation (EC) No. 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List

	Polyester Acrylate	25-30%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	
	Polyester Acrylate	20-<25%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319	
CAS: 94108-97-1	2-[[[2,2-bis[[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl	5-<10%
EC number: 302-434-9	diacrylate	
	Aquatic Chronic 2, H411	
CAS: 21245-02-3	2-ethylhexyl 4-(dimethylamino)benzoate	0.1-<3%
EINECS: 244-289-3	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335; Acute Tox. 5, H313; Aquatic Chronic 4, H413	

(Contd. on page 3)



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

Printing date 24.11.2016

Version number 2

Revision: 24.11.2016

Trade name: DUV-4535 NEWV PACK PANTONE RED 032 C

(Contd. of page 2)

CAS: 10287-53-3 EINECS: 233-634-3	Ethyl-p-dimethylamino benzoate Acute Tox. 5, H313; Acute Tox. 5, H333	1 -2.5%
	Dispersing agent Acute Tox. 5, H303; Acute Tox. 5, H313	1 -2.5%
CAS: 606-28-0 EINECS: 210-112-3	methyl 2-benzoylbenzoate Aquatic Chronic 3, H412	1 -2.5%
	Polyolacrylate Eye Irrit. 2A, H319; Acute Tox. 5, H303; Acute Tox. 5, H313	1 -2.5%
CAS: 119313-12-1 ELINCS: 404-360-3	2-Benzyl-2-dimethylamino-4-morpholinobutyrophenone Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.1-<1%
CAS: 52408-84-1 NLP: 500-114-5	Glycerol, propoxylated, esters with acrylic acid Eye Irrit. 2A, H319; Skin Sens. 1, H317	0.1-<1%
CAS: 128-37-0 EINECS: 204-881-4	2,6-di-tert-butyl-p-cresol Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.1-<0.25%

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information

In all cases of doubt, or when symptoms persist, seek medical advice.

In case of unconsciousness place person in the recovery position. Never give anything by mouth.

· After inhalation

Remove to fresh air.

Keep patient warm and at rest.

· After skin contact

Remove contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

· After eye contact

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses. Obtain medical attention.

· After swallowing Do NOT induce vomiting. Obtain medical attention.

· 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 Alcohol resistant foam, CO₂, powders, water spray.

· For safety reasons unsuitable extinguishing agents Water jet.

· 5.2 Special hazards arising from the substance or mixture

Appropriate breathing apparatus may be required.

Cool closed containers exposed to fire with water.

(Contd. on page 4)



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

Printing date 24.11.2016

Version number 2

Revision: 24.11.2016

Trade name: DUV-4535 NEWV PACK PANTONE RED 032 C

(Contd. of page 3)

- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.
- **Additional information** Collect run-off from fire fighting.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Ventilate the area.
- **6.2 Environmental precautions:**
Do not allow to enter drains. If the product contaminates rivers and lakes or sewers inform respective authorities.
- **6.3 Methods and material for containment and cleaning up:**
Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local regulations. Clean preferably with a detergent. Avoid use of solvents.
- **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 information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Avoid inhalation of vapour. Smoking, eating and drinking should be prohibited in application area. For personal protection see Section 8. Comply with health and safety at work laws. Avoid concentrations higher than the occupational exposure limits (see Section 8), if applicable.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
Keep container tightly closed. No smoking.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- **Further information about storage conditions:**
Always keep in containers of the same material as the original one. Store in a dry, well ventilated place. Keep away from heat and direct sunlight. Store in accordance with the particular national regulations concerning water pollution. Note Instructions on the label.
- **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:**
If relevant apply technical measures to comply with the occupational exposure limits. This can be by a good general extraction and-if practically feasible, be achieved by local exhaust ventilation.
- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:**
Numerical data - if specified - are taken from the valid national lists.
- **DNELs**
94108-97-1 2-[[[2,2-bis[[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate
Dermal DNEL workers 1.67 mg/kg bw/d (human)
Inhalative DNEL workers 5.88 mg/m³ (human) (chronic; systemic)

(Contd. on page 5)



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

Printing date 24.11.2016

Version number 2

Revision: 24.11.2016

Trade name: DUV-4535 NEWV PACK PANTONE RED 032 C

(Contd. of page 4)

119313-12-1 2-Benzyl-2-dimethylamino-4-morpholinobutyrophenone

Dermal DNEL workers 0.8 mg/kg bw/d (human) (chronic; systemic)

Inhalative DNEL workers 2.3 mg/m³ (human) (chronic; systemic)**52408-84-1 Glycerol, propoxylated, esters with acrylic acid**

Dermal DNEL workers 1.92 mg/kg bw/d (human) (chronic; systemic)

Inhalative DNEL workers 16.2 mg/m³ (human) (chronic; systemic)**128-37-0 2,6-di-tert-butyl-p-cresol**

Dermal DNEL workers 8.3 mg/kg bw/d (human) (chronic; systemic)

Inhalative DNEL workers 5.8 mg/m³ (human) (chronic; systemic)**PNECs****94108-97-1 2-[[[2-bis[[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate**

PNEC 0.098 mg/kg (soil)

PNEC STP 100 mg/l (STP)

52408-84-1 Glycerol, propoxylated, esters with acrylic acid

PNEC 0.00111 mg/kg (soil)

PNEC STP 10 mg/l (STP)

128-37-0 2,6-di-tert-butyl-p-cresol

PNEC 1.23 mg/kg (soil)

8.2 Exposure controls**Personal protective equipment****Breathing equipment:**

The use of respiratory protective measures, such as masks with filters for organic Vapours and dusts / mists are, in the absence of appropriate technical equipment, necessary for the protection of the employee. If exposure is above the exposure limit, then an appropriate, approved respirator must be worn. Please refer to the appropriate EU standard 14387.

Protection of hands:

For prolonged or repeated contact use gloves.

Barrier creams may help to protect exposed skin, they should however not be applied once have come into contact with the product.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves

Applicable for example are gloves of KCL GmbH, D 36124 Eichenzell, e-mail: vertrieb@kcl.de with following specification (Laboratory test according EN 374)

Recommend protective glove:

Article / Name /Material / Thickness Material / Breakthrough Time Remarks

Nr. 730/ Camatril Velours / Nitril / 0,4 mm Level 6 > 480 min. by full contact

Nr. 743/ Dermatril / Nitril / 0,2 mm Level 2 > 30 min. by splash contact

This recommendation is only for the product delivered by us and its intended purpose.

Penetration time of glove material

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

Eye protection: Use safety eyewear designed to protect against splash of liquids.**Body protection:**

Working clothes must not consist of textiles which show a dangerous melting behaviour in case of fire.

(Contd. on page 6)



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

Printing date 24.11.2016

Version number 2

Revision: 24.11.2016

Trade name: DUV-4535 NEWV PACK PANTONE RED 032 C

(Contd. of page 5)

All parts of the skin should be washed after contact.

SECTION 9: Physical and chemical properties**· 9.1 Information on basic physical and chemical properties****· General Information****· Appearance:**

Form: liquid
Colour: according to the tradename of the product
· Smell: characteristic

· Odour threshold: Not determined.**· pH-value:** Not determined.**· Change in condition****Melting point/Melting range:** not determined**Flash point:** >100 °C**· Inflammability (solid, gaseous)** Not applicable.**· Ignition temperature (Main Solevnt):** Not determined.
Not determined.**Decomposition temperature:** ·**Self-inflammability:****· Danger of explosion:** Not determined.**· Critical values for explosion:****· Lower: approx.** Not determined.**· Upper: approx.** Not determined.**· Vapour pressure:** Not determined.**· Density at 20 °C** 1.14 g/cm³**· Relative density** Not determined.**· Vapour density** Not determined.**· Evaporation rate** Not determined.**· Solubility in / Miscibility with** partly or not miscible**Water:****· Partition coefficient (n- octanol/water):** Not determined**· Viscosity:** Not determined.**dynamic:** Not determined.**kinematic:** <0.06 %**Organic solvents:** < 0.06 %**Water:** < 0.06 %**· 9.2 Other information** No further relevant information available.**SECTION 10: Stability and reactivity****· 10.1 Reactivity** No further relevant information available.**· 10.2 Chemical stability** No further relevant information available.**· 10.3 Thermal decomposition / conditions to be avoided:**

Stable under recommended storage and handling conditions (see section 7).

· 10.4 Conditions to avoid No further relevant information available.

(Contd. on page 7)



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

Printing date 24.11.2016

Version number 2

Revision: 24.11.2016

Trade name: DUV-4535 NEWV PACK PANTONE RED 032 C

(Contd. of page 6)

10.5 Incompatible materials:

Keep well away from oxidising agents and strongly alkaline or strongly acid materials in order to avoid exothermic reactions.

10.6 Hazardous decomposition products:

Exposition to high temperatures may produce hazardous decomposition products such as: carbon dioxide, carbon monoxide and smoke.

SECTION 11: Toxicological information

The mixture has been assessed following the additivity method of the CLP Regulation (EC) No 1272/2008 and classified for toxicological hazards accordingly. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in skin dryness. The product may be absorbed through the skin.

11.1 Information on toxicological effects

Acute toxicity No data available

LD/LC50 values that are relevant for classification:**94108-97-1 2-[[2,2-bis[[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate**

Oral LD50 > 5000 mg/kg (rat)

Dermal LD50 > 5000 mg/kg (rabbit)

Inhalative LC50 > 5000 mg/m³ (rat)

21245-02-3 2-ethylhexyl 4-(dimethylamino)benzoate

Oral LD50 > 5000 mg/kg (rat)

Dermal LD50 > 2000 mg/kg (rat)

10287-53-3 Ethyl-p-dimethylamino benzoate

Oral LD50 > 5000 mg/kg (rat)

Dermal LD50 > 2000 mg/kg (rabbit)

Inhalative LC50 > 840 mg/m³ (rat)

Dispersing agent

Oral LD50 > 2000 mg/kg (rat)

Dermal LD50 > 2000 mg/kg (rabbit)

Polyolacrylate

Oral LD50 > 2000 mg/kg (rat)

Dermal LD50 > 2000 mg/kg (rabbit)

Inhalative LC50 > 5000 mg/m³ (rat)

119313-12-1 2-Benzyl-2-dimethylamino-4-morpholinobutyrophenone

Oral LD50 > 5000 mg/kg (rat)

Dermal LD50 > 2000 mg/kg (rat)

52408-84-1 Glycerol, propoxylated, esters with acrylic acid

Oral LD50 > 5000 mg/kg (rat)

Dermal LD50 > 5000 mg/kg (rabbit)

128-37-0 2,6-di-tert-butyl-p-cresol

Oral LD50 > 5000 mg/kg (rat)

Dermal LD50 > 5000 mg/kg (rat)

(Contd. on page 8)



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

Printing date 24.11.2016

Version number 2

Revision: 24.11.2016

Trade name: DUV-4535 NEWV PACK PANTONE RED 032 C

(Contd. of page 7)

- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, 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 respiratory irritation.
- **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

The Product should not be allowed to enter drains of water courses or soil.

- **12.1 Toxicity**
- **Aquatic toxicity:**

94108-97-1 2-[[2,2-bis[[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate

Fish toxicity 1.2 mg/l (fish) (LC50 96h) Daphnia

toxicity > 10 mg/l (daphnia) (EC50 48h)

Algae toxicity > 12 mg/l (algae) (EC50 72h)

606-28-0 methyl 2-benzoylbenzoate

Fish toxicity 20 mg/l (fish) (LC50; 48 h)

119313-12-1 2-Benzyl-2-dimethylamino-4-morpholinobutyrophenone

Fish toxicity 0.46 mg/l (fish) (LC50; 96 h) Daphnia

toxicity > 0.8 mg/l (daphnia) (EC50; 24 h) Algae

toxicity > 2 mg/l (algae) (EC50; 72 h)

52408-84-1 Glycerol, propoxylated, esters with acrylic acid

Fish toxicity 5.74 mg/l (fish) (LC50; 96 h) Daphnia

toxicity 91.4 mg/l (daphnia) (EC50; 48 h)

Algae toxicity 12.2 mg/l (algae) (EC50; 72 h)

128-37-0 2,6-di-tert-butyl-p-cresol

Fish toxicity ≥ 0.57 mg/l (fish) (LC0; 96 h)

Daphnia toxicity 0.61 mg/l (daphnia) (EC50; 48 h)

Algae toxicity > 0.4 mg/l (algae) (EC50; 72 h)

- **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.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:** Harmful to aquatic organisms

(Contd. on page 9)



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

Printing date 24.11.2016

Version number 2

Revision: 24.11.2016

Trade name: DUV-4535 NEWV PACK PANTONE RED 032 C

(Contd. of page 8)

- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Do not allow to enter drains.
- **Uncleaned packagings:** Waste
- **Recommendation:**
Emptied containers should be disposed off into scrap recycling or reconditioning respectively.
Not orderly emptied cans and ink remnants are special waste.

SECTION 14: Transport information

Not classified according to transport regulations for dangerous goods (like ADR/RID, IMDG and ICAO/IATA).

- **14.1 UN-Number**
- **ADG, ADN, IMDG, IATA** -
- **14.2 UN proper shipping name**
- **ADG, ADN, IMDG, IATA** -
- **14.3 Transport hazard class(es)**
- **ADG, ADN, IMDG, IATA**
- **Class** -
- **14.4 Packing group**
- **ADG, IMDG, IATA** -
- **14.5 Environmental hazards:**
- **Marine pollutant:** No
- **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.
- **UN "Model Regulation":** -

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **Standard for the Uniform Scheduling of Medicines and Poisons**

67-56-1 methanol: S5, S6

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **National regulations**
The product is subject to classification in accordance with the prevailing version of the regulations on hazardous materials.
- **VOC-Content (EU):** not specified
- **Swiss VOC-Regulation** 0.00 %
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

(Contd. on page 10)



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

Printing date 24.11.2016

Version number 2

Revision: 24.11.2016

Trade name: DUV-4535 NEWV PACK PANTONE RED 032 C

(Contd. of page 9)

SECTION 16: Other information**Contact Point:**

Company Contact – Product Technical Manager
Business Hours - +61 (03) 9549 9300
After Hours – 0488 020 164

Australian Poisons Information Centre 24 hour service 13 11 26

POLICE, FIRE BRIGADE, AMBULANCE 000

The information on this Safety Data Sheet is based on the present state of our knowledge and on current national laws. The user's working conditions are beyond our knowledge and control. It is always the responsibility of the user to take all necessary steps in order to fulfil the demands laid down in the local rules and legislation. The information in this Safety Data Sheet is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the product's properties.

· Relevant phrases

H303 May be harmful if swallowed.
H313 May be harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H333 May be harmful if inhaled.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

Abbreviations and acronyms:

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)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration
(REACH) LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative
Acute
Tox. 5: Acute toxicity – Category 5
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic

(Contd. on page 11)



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

Printing date 24.11.2016

Version number 2

Revision: 24.11.2016

Trade name: DUV-4535 NEWV PACK PANTONE RED 032 C

Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3 Aquatic
Chronic 1:
Hazardous to the aquatic environment - long-term aquatic 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
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

(Contd. of page 10)

· * Data compared to the previous version altered.
