



Safety Data Sheet 1907/2006/EC - REACH (GB)
QuickFill NS Standard Komp. B

Date printed 08.04.2015, Revision 08.04.2015

Version 01

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

1.1 Product identifier

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

1.2.1 Relevant uses

Amine components

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Voelkel Industrie Produkte GmbH
Frauenstrasse 31
82216 Maisach / GERMANY
Phone +49 (0) 8141 35 549 0
Fax +49 (0) 8141 35 549 99
Homepage www.vip-gmbh.com
E-mail info@vip-gmbh.com

Address enquiries to

Technical information info@vip-gmbh.com

Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (english)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin Corr. 1A: H314 Causes severe skin burns and eye damage.
Eye Dam. 1: H318 Causes serious eye damage.
Skin Sens. 1: H317 May cause an allergic skin reaction.
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.

2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC

Xn, Harmful - R 22: Harmful if swallowed.
C, Corrosive - R 34: Causes burns.
N, Dangerous for the environment - R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Sensitizing. - R 43: May cause sensitisation by skin contact.

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2.2 Label elements

The product is classified and required to be labelled in accordance with EC-Directives

Labelling according to Regulation (EC) 1272/2008

Hazard pictograms



Signal word

DANGER

Contains:

6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine
 4,4'-Methylenebis(cyclohexylamine)

Hazard statements

H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe vapours / spray.
 P280 Wear protective gloves / protective clothing / eye protection / face protection.
 P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER / doctor.
 P501 Dispose of contents / container to in accordance with local / regional / national / international regulation.

2.3 Other hazards

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
10 - 20	6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine CAS: 106264-79-3, EINECS/ELINCS: 403-240-8, EU-INDEX: 612-113-00-8, ECB-Nr.: 01-0000015292-76-XXXX GHS/CLP: Acute Tox. 4: H302 - Skin Sens. 1: H317 - Aquatic Chronic 1: H410 - Aquatic Acute 1: H400, M = 1 EEC: Xn-N, R 22-43-50/53
10 - 20	Oxydipropyl dibenzoate CAS: 27138-31-4, EINECS/ELINCS: 248-258-5, ECB-Nr.: 01-2119529241-49-XXXX GHS/CLP: Aquatic Chronic 3: H412 EEC: N, R 51/53
1 - 5	4,4'-Methylenebis(cyclohexylamine) CAS: 1761-71-3, EINECS/ELINCS: 217-168-8, ECB-Nr.: 01-2119541673-38-XXXX GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1A: H314 - Eye Dam. 1: H318 - Skin Sens. 1: H317 - STOT RE 2: H373 - Aquatic Chronic 2: H411 EEC: C-N, R 35-22-43-51/53-48/22

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
 For full text of H-statements and R-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Change soaked clothing immediately.
Inhalation	Ensure supply of fresh air. Remove the victim into fresh air and keep him calm. In the event of symptoms seek for medical treatment.
Skin contact	Immediate medical treatment necessary, as untreated burns can result in slow-healing wounds. In case of contact with skin wash off immediately with soap and water.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a doctor immediately.
Ingestion	Consult a doctor immediately. Do not induce vomiting. Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

Product is caustic.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	foam, dry powder, water spray jet, carbon dioxide
Extinguishing media that must not be used	Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x).

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Use personal protective equipment.
Remove persons to safety.
High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the drains/surface waters/groundwater.
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Avoid spilling in enclosed areas.

Remove soiled or soaked clothing immediately.
Do not eat, drink, smoke or take drugs at work.
Showers and eye wash stations should be provided.
Wash hands before breaks and after work.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.
Do not store together with oxidizing agents.
Do not store together with acids.
Keep container tightly closed.
Keep container in a well-ventilated place.
Keep away from water or from damp surroundings.
Protect from heat/overheating and from sun.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

not applicable

DNEL

Range [%]	Substance
10 - 20	Oxydipropyl dibenzoate, CAS: 27138-31-4
	Industrial, dermal, Long-term - systemic effects: 1,7 mg/kg bw.
	Industrial, inhalative, Long-term - systemic effects: 5,8 mg/m ³ .
	Industrial, inhalative, Acute - systemic effects: 38,08 mg/m ³ .
	Industrial, dermal, Acute - systemic effects: 160 mg/kg bw.
	general population, dermal, Acute - systemic effects: 8 mg/kg bw.
	general population, oral, Long-term - systemic effects: 0,8 mg/kg bw.
	general population, inhalative, Long-term - systemic effects: 1,4 mg/m ³ .
	general population, dermal, Long-term - systemic effects: 0,8 mg/kg bw.
	general population, oral, Acute - systemic effects: 80 mg/kg bw.
	general population, inhalative, Acute - systemic effects: 8,7 mg/m ³ .
1 - 5	4,4'-Methylenebis(cyclohexylamine), CAS: 1761-71-3
	Industrial, dermal, Long-term - systemic effects: 0,1 mg/kg bw/d.
	Industrial, inhalative, Long-term - systemic effects: 1 mg/m ³ .
	general population, oral, Long-term - systemic effects: 0,06 mg/kg bw/d.
	general population, dermal, Long-term - systemic effects: 0,06 mg/kg bw/d.
	general population, inhalative, Long-term - systemic effects: 0,21 mg/m ³ .

PNEC

Range [%]	Substance
10 - 20	Oxydipropyl dibenzoate, CAS: 27138-31-4
	sewage treatment plants (STP), 10 mg/l.
	soil, 1 mg/kg.
	sediment (seawater), 0,0474 mg/kg.
	sediment (freshwater), 0,474 mg/kg.
	seawater, 0,00029 mg/l.
	freshwater, 0,0029 mg/l.
1 - 5	4,4'-Methylenebis(cyclohexylamine), CAS: 1761-71-3
	soil, 0,072 mg/kg dw.
	sediment (seawater), 0,039 mg/kg dw.
	sediment (freshwater), 0,39 mg/kg dw.
	sewage treatment plants (STP), 80 mg/l.
	seawater, 0,0008 mg/l.
	freshwater, 0,008 mg/l.

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8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Tightly fitting goggles.
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. Neoprene, >480 min (EN 374). Nitrile rubber, >480 min (EN 374).
Skin protection	Impermeable protective clothing.
Other	Do not inhale gases/vapours. Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.
Respiratory protection	If ventilation insufficient, wear respiratory protection. Short term: filter apparatus, filter A.
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	Viscous liquid
Color	various
Odor	amine-like
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not determined
Flash point [°C]	not determined
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	1,05 - 1,09 (20 °C / 68,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	immiscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	900-1300 mPas (25°C)
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not determined
Decomposition temperature [°C]	not determined

9.2 Other information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.



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10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.
Reactions with acids.

10.4 Conditions to avoid

See SECTION 7

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

No dangerous reactions known if used as directed.
In the event of fire: See SECTION 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product
ATE-mix, oral, > 2000 mg/kg.

Range [%]	Substance
10 - 20	Oxydipropyl dibenzoate, CAS: 27138-31-4
	LD50, dermal, Rat: > 2000 mg/kg.
	LD50, oral, Rat: 3914 mg/kg.
	LC50, inhalative, Rat: > 200 mg/l/4h.
	NOAEL, Rat: 1000 mg/kg/90d.
1 - 5	4,4'-Methylenebis(cyclohexylamine), CAS: 1761-71-3
	LD50, dermal, Rabbit: 2110 mg/kg.
	LD50, oral, Rat: 625 mg/kg.
10 - 20	6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine, CAS: 106264-79-3
	LD50, dermal, Rabbit: > 2000 mg/kg.
	LD50, oral, Rat: 1515 mg/kg.

Serious eye damage/irritation not determined

Skin corrosion/irritation not determined

Respiratory or skin sensitisation not determined

Specific target organ toxicity — single exposure not determined

Specific target organ toxicity — repeated exposure not determined

Mutagenicity not determined

Reproduction toxicity not determined

Carcinogenicity not determined

General remarks May cause irritation of respiratory organs.

Toxicological data of complete product are not available.
 The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials. The product was classified on the basis of the calculation procedure of the preparation directive.

SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
10 - 20	Oxydipropyl dibenzoate, CAS: 27138-31-4
	LC50, (96h), Pimephales promelas: 3,7 mg/l.
	NOELR, (72h), Algae: 1 mg/l.
	NOELR, (72h), Algae: 1 mg/l.
	LL50, (48h), Daphnia magna: 19,3 mg/l.
	LL50, (72h), Algae: 4,9 mg/l.
1 - 5	4,4'-Methylenebis(cyclohexylamine), CAS: 1761-71-3
	LC50, (96h), Leuciscus idus: 46 - 100 mg/l.
	EC50, (72h), Algae: 140 - 200 mg/l.
	EC50, (48h), Daphnia magna: 6,84 mg/l.
10 - 20	6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine, CAS: 106264-79-3
	LC50, (96h), Rainbow trout: 7,3 mg/l.
	EC50, (72h), Selenastrum capricornutum: 7,6 mg/l.
	EC50, (48h), Daphnia magna: 0,9 mg/l.

12.2 Persistence and degradability

	BOD 5: 650 mg/g (CAS 27138-31-4)
Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	Biodegradable in part only 87%, 28d (CAS 27138-31-4)

12.3 Bioaccumulative potential

log Pow: 3,9 (CAS 27138-31-4)

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Other adverse effects

The product is insoluble in water.

Ecological data of complete product are not available.

The product was classified on the basis of the calculation procedure of the preparation directive.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.
 For recycling, consult manufacturer.

Waste no. (recommended) 160305*
 160508*
 080409*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
 Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110*

SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID UN 2735 Amines, liquid, corrosive, n.o.s (4,4-Methylenebis(cyclohexylamine)) (ENVIRONMENTALLY HAZARDOUS) 8 II

- Classification Code

C7

- Label



- ADR LQ

1 I

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 2 (E)

Inland navigation (ADN)

UN 2735 Amines, liquid, corrosive, n.o.s (4,4-Methylenebis(cyclohexylamine)) (ENVIRONMENTALLY HAZARDOUS) 8 II

- Classification Code

C7

- Label



Marine transport in accordance with IMDG

UN 2735 Amines, liquid, corrosive, n.o.s. (4,4-methylenebis(cyclohexylamine), 6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine) 8 II MARINE POLLUTANT

- EMS

F-A, S-B

- Label



- IMDG LQ

1 I

Air transport in accordance with IATA

UN 2735 Amines, liquid, corrosive, n.o.s. (4,4-Methylenebis(cyclohexylamine)) 8 II

- Label



14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

SECTION 15: Regulatory information

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

EEC-REGULATIONS	1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
- Observe employment restrictions for people	Observe employment restrictions for young people. Observe employment restrictions for mothers-to-be and nursing mothers.
- VOC (1999/13/CE)	not applicable

15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 R-phrases (SECTION 3)

R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 22: Harmful if swallowed.
R 43: May cause sensitisation by skin contact.
R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 35: Causes severe burns.
R 48/22: Harmful - danger of serious damage to health by prolonged exposure if swallowed.

16.2 Hazard statements (SECTION 3)

H411 Toxic to aquatic life with long lasting effects.
H373 May cause damage to hearing organs through prolonged or repeated exposure.
H318 Causes serious eye damage.
H314 Causes severe skin burns and eye damage.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H317 May cause an allergic skin reaction.
H302 Harmful if swallowed.
H412 Harmful to aquatic life with long lasting effects.

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16.3 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List of Notified Chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
TLV@/TWA = Threshold limit value – time-weighted average
TLV@STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.4 Other information

Classification procedure

Skin Corr. 1A: H314 Causes severe skin burns and eye damage. (Calculation method)
Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)
Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)

Modified position

none



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