

Safety data sheet

Page: 1/13

BASF Safety data sheet

Date / Revised: 29.01.2024 Version: 4.0

Product: 40-440 5L 2K Clear VOC

(50400541/SDS_GEN_NZ/EN)

Date of print: 30.01.2024

1. Substance/preparation and manufacturer/supplier identification

Product name:

40-440 5L 2K Clear VOC

Use: Clearcoat product

Manufacturer/supplier:

BASF New Zealand Ltd.
5E City Works Depot
77 Cook Street
Auckland Central, Auckland 1010

NEW ZEALAND Telephone: +64 9 255-4300

Telefax number: +64 9 255-4307

Emergency information:

National Poisons Centre: 0800 764 766

BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only) BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

2. Hazard identification

Classification of the substance and mixture:

Acute toxicity: Cat.5 (oral) Skin corrosion/irritation: Cat.3

Serious eye damage/eye irritation: Cat.2A

Skin sensitization: Cat.1A

Specific target organ toxicity — single exposure: Cat.3 (May cause drowsiness and dizziness.)

Hazardous to the aquatic environment - acute: Cat.3 Hazardous to the aquatic environment - chronic: Cat.3

Flammable liquids: Cat.3

Label elements and precautionary statement:

Product: 40-440 5L 2K Clear VOC

(50400541/SDS_GEN_NZ/EN)

Date of print: 30.01.2024

Pictogram:





Signal Word: Warning

H226 Flammable liquid and vapour. H303 May be harmful if swallowed. H316 Causes mild skin irritation.

H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280 Wear protective gloves, protective clothing and eye protection or face

protection.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash contaminated body parts thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P242 Use non-sparking tools.

P241 Use explosion-proof electrical, ventilating and lighting equipment.

P243 Take action to prevent static discharges.

P233 Keep container tightly closed.

P210 Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

P240 Ground and bond container and receiving equipment.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

Precautionary Statements (Response):

P312 Call a POISON CENTER or physician if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P370 + P378 In case of fire: Use water spray for extinction.

P362 + P364 Take off contaminated clothing and wash it before reuse. P333 + P313 If skin irritation or rash occurs: Get medical attention.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

P337 + P313 If eye irritation persists: Get medical attention.

Precautionary Statements (Storage):

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Precautionary Statements (Disposal):

Product: 40-440 5L 2K Clear VOC

(50400541/SDS_GEN_NZ/EN)

Date of print: 30.01.2024

P501 Dispose of contents and container to hazardous or special waste

collection point.

Other hazards which do not result in classification:

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition/information on ingredients

Chemical nature

Substance nature: mixture

acrylic resin, organic solvent

Hazardous ingredients

2-heptanone

Content (W/W): >= 15 % - < 20 % Flam. Liq.: Cat. 3

Acute Tox.: Cat. 4 (Inhalation - vapour) CAS Number: 110-43-0

Acute Tox.: Cat. 4 (oral) Skin Corr./Irrit.: Cat. 3

STOT SE: Cat. 3 (drowsiness and dizziness)

Aquatic Acute: Cat. 3

Propanoic acid, 3-ethoxy-, ethyl ester

Content (W/W): >= 12.5 % - < 15 Flam. Liq.: Cat. 3

Acute Tox.: Cat. 5 (oral) CAS Number: 763-69-9 Aquatic Acute: Cat. 3

Acute Tox.: Cat. 5 (dermal)

n-Butyl acetate

Content (W/W): >= 7 % - < 10 % Flam. Liq.: Cat. 3

STOT SE: Cat. 3 (drowsiness and dizziness) CAS Number: 123-86-4

Aquatic Acute: Cat. 3

xylene

Content (W/W): >= 1 % - < 2 % Asp. Tox.: Cat. 1 CAS Number: 1330-20-7 Flam. Liq.: Cat. 3

Acute Tox.: Cat. 5 (Inhalation - vapour)

Acute Tox.: Cat. 5 (oral) Skin Corr./Irrit.: Cat. 2 Eye Dam./Irrit.: Cat. 2B

STOT SE: Cat. 3 (irr. to respiratory syst.) STOT RE (Central nervous system, Liver,

Kidney): Cat. 2

Aquatic Acute: Cat. 2 Aquatic Chronic: Cat. 3

Product: 40-440 5L 2K Clear VOC

(50400541/SDS_GEN_NZ/EN)

Date of print: 30.01.2024

Benzenepropanoic acid, 3-(2H-benzotriazol-2-yl)-5-(1,1- dimethylethyl)-4-hydroxy-, C7-9-branched and linear alkyl esters

Content (W/W): >= 1 % - < 2 % Aquatic Chronic: Cat. 2

CAS Number: 127519-17-9

Solventnaphtha (petroleum), light aromatic

Content (W/W): >= 1 % - < 2 % Asp. Tox.: Cat. 1 CAS Number: 64742-95-6 Flam. Liq.: Cat. 3

STOT SE: Cat. 3 (drowsiness and dizziness) STOT SE: Cat. 3 (irr. to respiratory syst.)

Aquatic Chronic: Cat. 2

bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate

Content (W/W): >= 0.5 % - < 1 % Acute Tox.: Cat. 5 (oral) CAS Number: 41556-26-7 Skin Sens.: Cat. 1A

Repr.: Cat. 2 (fertility) Aquatic Acute: Cat. 1 Aquatic Chronic: Cat. 1 M-factor acute: 1

Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Content (W/W): >= 0.2 % - < 0.3 % Acute Tox.: Cat. 5 (oral)

CAS Number: 82919-37-7 Skin Sens.: Cat. 1A Repr.: Cat. 2 (fertility)

Aquatic Acute: Cat. 1
Aquatic Chronic: Cat. 1
M-factor acute: 1
M-factor chronic: 1

4. First-Aid Measures

General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove affected person from danger area. Immediately remove contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice. If breathing is irregular or stopped, administer artificial respiration.

On skin contact:

If symptoms persist, seek medical advice. Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. Do NOT use solvents or thinners.

On contact with eyes:

Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

Product: 40-440 5L 2K Clear VOC

(50400541/SDS_GEN_NZ/EN)

Date of print: 30.01.2024

On ingestion:

Do not induce vomiting. Rinse mouth thoroughly with water, seek medical attention. If adverse health effects develop seek medical attention.

Note to physician:

Symptoms: Eye irritation, allergic symptoms, dazed state, skin irritation, dizziness, Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Treatment: Symptomatic treatment (decontamination, vital functions).

Antidote: No known specific antidote.

5. Fire-Fighting Measures

Suitable extinguishing media:

carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons: water jet

Specific hazards:

Fire will produce dense black smoke. Inhalation of dangerous decomposition products may cause serious damage to health.

Special protective equipment:

Appropriate breathing apparatus may be required.

Further information:

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

6. Accidental Release Measures

Personal precautions:

Avoid breathing vapours.For non-emergency personnel:Use personal protective clothing.Ensure adequate ventilation.Keep away from sources of ignition.For emergency responders:Advice on product handling can be found in sections 7 and 8 of this safety data sheet.Information regarding personal protective measures, see section 8.

Environmental precautions:

Do not allow to enter drains or waterways. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency. Do not discharge into the subsoil/soil.

Product: 40-440 5L 2K Clear VOC

(50400541/SDS_GEN_NZ/EN)

Date of print: 30.01.2024

Methods for cleaning up or taking up:

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents. Ensure adequate ventilation.

7. Handling and Storage

Handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits. Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eyerinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear. Solvent vapours are heavier than air and spread along floors. Vapour forms explosive mixtures with air. The relevant fire protection measures should be noted. Use explosion-proof equipment.

Storage

Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

Suitable materials for containers: Carbon steel (Iron), tinned carbon steel (Tinplate)
Further information on storage conditions: Keep container dry. Keep away from heat. Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions. Store protected against freezing.

Storage stability:

Storage temperature: 5 - 35 °C

8. Exposure controls and personal protection

Components with occupational exposure limits

2-heptanone, 110-43-0;

TWA value 50 ppm (ACGIHTLV)
TWA value 233 mg/m3; 50 ppm (OEL (NZ))

n-Butyl acetate, 123-86-4;

Product: 40-440 5L 2K Clear VOC

(50400541/SDS_GEN_NZ/EN)

Date of print: 30.01.2024

STEL value 150 ppm (ACGIHTLV)
TWA value 50 ppm (ACGIHTLV)
TWA value 713 mg/m3; 150 ppm (OEL (NZ))
STEL value 950 mg/m3; 200 ppm (OEL (NZ))

xylene, 1330-20-7;

TWA value 20 ppm (ACGIHTLV)

TWA value 217 mg/m3; 50 ppm (OEL (NZ))

Solventnaphtha (petroleum), light aromatic, 64742-95-6;

Personal protective equipment

Respiratory protection:

Suitable respiratory protection: e.g. half-mask with A1P2 class combination filter When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators. Use A1P2 breathing-protection half mask in case of contact with aerosols.

Hand protection:

Further information on penetration time is available from the manufacturer of the glove.

Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components.

The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).

Follow manufacturer's advice on use, storage, maintenance and replacement of gloves.

The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g.

butyl rubber gloves - material thickness: 0.5 mm

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)

Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1)

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166), Required when there is a risk of eye contact.

Body protection:

chemical-resistant disposable coveralls, Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.

General safety and hygiene measures:

Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

Product: 40-440 5L 2K Clear VOC

(50400541/SDS_GEN_NZ/EN)

Date of print: 30.01.2024

Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

9. Physical and Chemical Properties

Form: liquid
Colour: colourless
Odour: ester-like

pH value:

substance/mixture is non-

polar/aprotic

Melting point:

not determined

onset of boiling: 124 °C (calculated)

Flash point: 23 °C (ISO 3679)

Flammability (solid/gas): Flammable liquid and vapour.

Lower explosion limit: 36 g/m3 lgnition temperature: > 200 °C

Thermal decomposition: No decomposition if stored and

handled as prescribed/indicated.

No decomposition if stored and handled as prescribed/indicated. It is not a material capable of

Self heating ability: It is not a material ca

spontaneous heating

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

Vapour pressure: 0.30 hPa (calculated)

(20 °C)

(50 °C)

not determined

Density: 0.994 g/cm3

(20 °C)

Relative vapour density (air):

Heavier than air.

Heavier than air.

Solubility in water: immiscible

Miscibility with water:

immiscible

Partitioning coefficient n-octanol/water (log Pow):

not applicable for mixtures

Product: 40-440 5L 2K Clear VOC

(50400541/SDS_GEN_NZ/EN)

Date of print: 30.01.2024

Viscosity, kinematic: 340.7 mm2/s

(23 °C)

(40 °C)

No data available.

Flow time: > 50 s (DIN EN ISO 2431; 6 mm)

(23 °C)

10. Stability and Reactivity

Conditions to avoid:

Avoid heat. Avoid direct sunlight. Avoid all sources of ignition: heat, sparks, open flame. Avoid freezing.

Thermal decomposition: No decomposition if stored and handled as

prescribed/indicated.

Thermal decomposition: No decomposition if stored and handled as

prescribed/indicated.

Substances to avoid:

Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

Hazardous reactions:

Vapours may form ignitable mixture with air.

When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

Chemical stability:

The product is stable if stored and handled as prescribed/indicated.

Reactivity:

No hazardous reactions if stored and handled as prescribed/indicated.

11. Toxicological Information

Routes of exposure

Assessment of acute toxicity

Of low toxicity after single ingestion.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated and prolonged exposure to solvents at levels significantly above OELs may lead to the development of long-lasting central nervous system disorders such as chronic toxic encephalopathy, signs of toxicity include changes in behaviour and memory. Solvents may cause

Product: 40-440 5L 2K Clear VOC

(50400541/SDS_GEN_NZ/EN)

Date of print: 30.01.2024

some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Information on: 2-heptanone

Acute oral toxicity

Experimental/calculated data: LD50 rat (oral): approx. 1,600 mg/kg

Information on: Ethyl 3-ethoxypropionate

Acute oral toxicity

Experimental/calculated data:

LD50 rat (oral): 4,309 mg/kg (OECD Guideline 401)

Information on: xylene

Acute oral toxicity

Experimental/calculated data:

LD50 rat (oral): 3,523 mg/kg (similar to OECD guideline 401)

Symptoms

Eye irritation allergic symptoms dazed state skin irritation dizziness Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Irritation

Assessment of irritating effects:

The liquid splashed in the eyes may cause irritation and reversible damage. Eye contact causes irritation. Skin contact causes slight irritation.

Respiratory/Skin sensitization

Assessment of sensitization:

Sensitization after skin contact possible.

Germ cell mutagenicity

Assessment of mutagenicity:

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

Carcinogenicity

Assessment of carcinogenicity:

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

Reproductive toxicity

Assessment of reproduction toxicity:

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

Product: 40-440 5L 2K Clear VOC

(50400541/SDS_GEN_NZ/EN)

Date of print: 30.01.2024

Developmental toxicity

Assessment of teratogenicity:

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

Specific target organ toxicity (single exposure)

Possible narcotic effects (drowsiness or dizziness).

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

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

Aspiration hazard

No aspiration hazard expected.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:

Harmful to aquatic life. Harmful to aquatic life with long lasting effects. There are no test results available for this product. Do not allow to enter drains or waterways.

Mobility

Assessment transport between environmental compartments:

No data available.

Persistence and degradability

Assessment biodegradation and elimination (H2O):

Biological degradability of hazardous substances mentioned in section 3:

Information on: 2-heptanone

Elimination information:

69 % DOC reduction (28 d) (OECD Guideline 310) (aerobic, activated sludge, domestic, non-

adapted)

Information on: n-Butyl acetate

Elimination information:

80 % BOD of the ThOD (5 d) (OECD 301D; 92/69/EWG, C.4-E) (aerobic, municipal sewage

treatment plant effluent)

Information on: Ethyl 3-ethoxypropionate

Elimination information:

100 % CO2 formation relative to the theoretical value (28 d) (Directive 84/449/EEC, C.5) (aerobic,

activated sludge, domestic, non-adapted) Readily biodegradable.

Product: 40-440 5L 2K Clear VOC

(50400541/SDS_GEN_NZ/EN)

Date of print: 30.01.2024

100 % CO2 formation relative to the theoretical value (18 d) (OECD 301B; ISO 9439; 92/69/EWG, C.4-C) (aerobic)

Information on: xylene

Elimination information:

87.8 % BOD of the ThOD (28 d) (OECD Guideline 301 F) (aerobic, activated sludge, domestic, non-adapted)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Bioaccumulation potential

Bioaccumulation potential:

No data available.

13. Disposal Considerations

Do not discharge into drains/surface waters/groundwater.

Observe national and local legal requirements.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14. Transport Information

Domestic transport:

UN number or ID number: UN 1263
UN proper shipping name: PAINT
Transport hazard class(es): 3
Packing group: III
Environmental hazards: no

Special precautions for

None known

user:

Further information

Hazchem Code:3Y IERG Number:14

Sea transport

IMDG

UN number or ID number: UN 1263
UN proper shipping name: PAINT
Transport hazard class(es): 3
Packing group: III
Environmental hazards: no

Marine pollutant: NO

Special precautions for EmS: F-E; <u>S-E</u>

Product: 40-440 5L 2K Clear VOC

(50400541/SDS_GEN_NZ/EN)

Date of print: 30.01.2024

user:

Air transport

IATA/ICAO

UN number or ID number: UN 1263 UN proper shipping name: PAINT Transport hazard class(es): 3 Packing group: III

Environmental hazards: No Mark as dangerous for the environment is needed

Special precautions for None known

user:

Further information

Not dangerous goods of class 3 in packages up to 450 litres capacity (valid for ADR, ADNR, RID, TDG and USDOT).

15. Regulatory Information

Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Tracking requirements do not apply to this substance.

A certified handler is not required for the handling of this substance.

HSNO Approval Number HSR002662

Surface Coatings and Colourants (Flammable) Group Standard 2017

16. Other Information

For multi-pack systems observe material safety data sheets of all components. Restricted to professional users.

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.



Safety data sheet

Page: 1/13

BASF Safety data sheet

Date / Revised: 16.04.2023 Version: 6.0

Product: 50-420 2,5L VOC Hardener Normal

(50400517/SDS_GEN_NZ/EN)

Date of print: 18.04.2023

1. Substance/preparation and manufacturer/supplier identification

Product name:

50-420 2,5L VOC Hardener Normal

Use: hardener

Manufacturer/supplier:

BASF New Zealand Ltd. 5E City Works Depot 77 Cook Street Auckland Central, Auckland 1010 NEW ZEALAND

Telephone: +64 9 255-4300 Telefax number: +64 9 255-4307

Emergency information:

National Poisons Centre: 0800 764 766

BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only) BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

2. Hazard identification

Classification of the substance and mixture: Acute toxicity: Cat.4 (Inhalation - vapour)

Skin corrosion/irritation: Cat.3 Skin sensitization: Cat.1

Specific target organ toxicity — single exposure: Cat.3 (irritating to respiratory system)

Hazardous to the aquatic environment - acute: Cat.3 Hazardous to the aquatic environment - chronic: Cat.3

Flammable liquids: Cat.3

Specific target organ toxicity — single exposure: Cat.3 (Vapours may cause drowsiness and

dizziness.)

Label elements and precautionary statement:

Product: 50-420 2,5L VOC Hardener Normal

(50400517/SDS_GEN_NZ/EN)

Date of print: 18.04.2023

Pictogram:



Signal Word: Warning

Hazard Statement:

H226 Flammable liquid and vapour. H316 Causes mild skin irritation.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280 Wear protective gloves, protective clothing and eye protection or face

protection.

P271 Use only outdoors or in a well-ventilated area.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P242 Use non-sparking tools.

P241 Use explosion-proof electrical, ventilating and lighting equipment.

P243 Take action to prevent static discharges.

P233 Keep container tightly closed.

P210 Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

P240 Ground and bond container and receiving equipment.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

Precautionary Statements (Response):

P312 Call a POISON CENTER or physician if you feel unwell.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P370 + P378 In case of fire: Use water spray for extinction.

P362 + P364 Take off contaminated clothing and wash it before reuse. P333 + P313 If skin irritation or rash occurs: Get medical attention.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

Precautionary Statements (Storage):

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste

collection point.

Other hazards which do not result in classification:

BASF Safety data sheet Date / Revised: 16.04.2023

Date / Revised: 16.04.2023 Version: 6.0

Product: 50-420 2,5L VOC Hardener Normal

(50400517/SDS_GEN_NZ/EN)

Date of print: 18.04.2023

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition/information on ingredients

Chemical nature

Substance nature: mixture

organic solvent

Hazardous ingredients

Hexamethylen-1,6-diisocyanat Homopolymer

Content (W/W): >= 50 % - < 75 % Acute Tox.: Cat. 4 (Inhalation - dust) Acute Tox.: Cat. 4 (Inhalation - vapour)

Skin Sens.: Cat. 1

STOT SE: Cat. 3 (irr. to respiratory syst.)

2-heptanone

Content (W/W): >= 20 % - < 25 % Flam. Liq.: Cat. 3

CAS Number: 110-43-0 Acute Tox.: Cat. 4 (Inhalation - vapour)

Acute Tox.: Cat. 4 (oral) Skin Corr./Irrit.: Cat. 3

STOT SE: Cat. 3 (drowsiness and dizziness)

Aquatic Acute: Cat. 3

2-butoxyethyl acetate

Content (W/W): >= 7 % - < 10 % Flam. Liq.: Cat. 4

CAS Number: 112-07-2 Acute Tox.: Cat. 4 (dermal)

Aquatic Acute: Cat. 3

1-methoxy-2-propylacetate

Content (W/W): >= 7 % - < 10 % Flam. Liq.: Cat. 3

CAS Number: 108-65-6 STOT SE: Cat. 3 (drowsiness and dizziness)

Solventnaphtha (petroleum), light aromatic

Product: 50-420 2,5L VOC Hardener Normal

(50400517/SDS_GEN_NZ/EN)

Date of print: 18.04.2023

Content (W/W): >= 3 % - < 5 % Asp. Tox.: Cat. 1 CAS Number: 64742-95-6 Flam. Liq.: Cat. 3

STOT SE: Cat. 3 (drowsiness and dizziness) STOT SE: Cat. 3 (irr. to respiratory syst.)

Aquatic Chronic: Cat. 2

4. First-Aid Measures

General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove affected person from danger area. Immediately remove contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice. If breathing is irregular or stopped, administer artificial respiration.

On skin contact:

If symptoms persist, seek medical advice. Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. Do NOT use solvents or thinners.

On contact with eyes:

If symptoms persist, seek medical advice. Contact lenses should be removed. Hold eyelids open and flush with copious amounts of clean, fresh water or a special eyewash solution.

On ingestion:

Do not induce vomiting. Rinse mouth thoroughly with water, seek medical attention. If adverse health effects develop seek medical attention.

Note to physician:

Symptoms: allergic symptoms, dazed state, irritation of respiratory tract, dizziness, Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Treatment: Symptomatic treatment (decontamination, vital functions).

Antidote: No known specific antidote.

5. Fire-Fighting Measures

Suitable extinguishing media:

carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:

water jet

Specific hazards:

Fire will produce dense black smoke. Inhalation of dangerous decomposition products may cause serious damage to health.

Special protective equipment:

Appropriate breathing apparatus may be required.

Version: 6.0

BASF Safety data sheet
Date / Revised: 16.04.2023

Product: 50-420 2,5L VOC Hardener Normal

(50400517/SDS_GEN_NZ/EN)

Date of print: 18.04.2023

Further information:

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

6. Accidental Release Measures

Personal precautions:

Avoid breathing vapours.For non-emergency personnel:Use personal protective clothing.Ensure adequate ventilation.Keep away from sources of ignition.For emergency responders:Advice on product handling can be found in sections 7 and 8 of this safety data sheet.Information regarding personal protective measures, see section 8.

Environmental precautions:

Do not allow to enter drains or waterways. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency. Do not discharge into the subsoil/soil.

Methods for cleaning up or taking up:

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): ethanol or isopropyl alcohol (50 parts); water (45 parts); concentrated ammonia solution (5 parts). A non-flammable alternative is: sodium carbonate (5 parts); water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to the waste regulations (see section 13). Ensure adequate ventilation.

7. Handling and Storage

Handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits. Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eyerinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear. Solvent vapours are heavier than air and spread along floors. Vapour forms explosive mixtures with air. The relevant fire protection measures should be noted. Use explosion-proof equipment.

Version: 6.0

BASF Safety data sheet
Date / Revised: 16.04.2023

Product: 50-420 2,5L VOC Hardener Normal

(50400517/SDS_GEN_NZ/EN)

Date of print: 18.04.2023

Storage

Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

Suitable materials for containers: Carbon steel (Iron), tinned carbon steel (Tinplate)
Further information on storage conditions: Keep container dry. Keep away from heat. Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions. Store protected against freezing.

8. Exposure controls and personal protection

Components with occupational exposure limits

2-heptanone, 110-43-0;

TWA value 50 ppm (ACGIHTLV)
TWA value 233 mg/m3; 50 ppm (OEL (NZ))

Solventnaphtha (petroleum), light aromatic, 64742-95-6;

Biological Exposure Indices:

No data available.

Personal protective equipment

Respiratory protection:

Suitable respiratory protection: e.g. half-mask with A2P2 class combination filter When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators. Use A1P2 breathing-protection half mask in case of contact with aerosols.

Hand protection:

Further information on penetration time is available from the manufacturer of the glove.

Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components.

The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).

Follow manufacturer's advice on use, storage, maintenance and replacement of gloves.

The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g.

butyl rubber gloves - material thickness: 0.5 mm

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)

Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1)

Product: 50-420 2,5L VOC Hardener Normal

(50400517/SDS_GEN_NZ/EN)

Date of print: 18.04.2023

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166), Required when there is a risk of eye contact.

Body protection:

chemical-resistant disposable coveralls, Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.

General safety and hygiene measures:

Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

9. Physical and Chemical Properties

Form: liquid colourless Odour: ketone-like

pH value:

substance/mixture is non-

polar/aprotic

Melting point:

not determined

onset of boiling:

not determined

Flash point: 45 °C (ISO 3679)

Flammability (solid/gas): Flammable liquid and vapour.

Lower explosion limit: 36 g/m3 lgnition temperature: > 200.00 °C

Thermal decomposition: No decomposition if stored and

handled as prescribed/indicated.

Self heating ability: It is not a material capable of

spontaneous heating

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

Vapour pressure:

(20 °C)

not determined

(50 °C)

not determined

Product: 50-420 2,5L VOC Hardener Normal

(50400517/SDS_GEN_NZ/EN)

Date of print: 18.04.2023

No applicable information available.

No applicable information available.

Density: 1.014 g/cm3

(20 °C)

Relative vapour density (air):

Heavier than air.

Miscibility with water:

immiscible

Partitioning coefficient n-octanol/water (log Pow):

not applicable for mixtures

Viscosity, kinematic: 7.3 mm2/s

(20 °C)

(40 °C)

not determined

Flow time: > 30 s (DIN EN ISO 2431; 3 mm)

10. Stability and Reactivity

Conditions to avoid:

Avoid heat. Avoid direct sunlight. Avoid all sources of ignition: heat, sparks, open flame. Avoid freezing.

Thermal decomposition: No decomposition if stored and handled as

prescribed/indicated.

Substances to avoid:

Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

Hazardous reactions:

Vapours may form ignitable mixture with air.

When exposed to high temperatures hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

Chemical stability:

The product is stable if stored and handled as prescribed/indicated.

Reactivity:

No hazardous reactions if stored and handled as prescribed/indicated.

11. Toxicological Information

Routes of exposure

Product: 50-420 2,5L VOC Hardener Normal

(50400517/SDS_GEN_NZ/EN)

Date of print: 18.04.2023

Assessment of acute toxicity

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated and prolonged exposure to solvents at levels significantly above OELs may lead to the development of long-lasting central nervous system disorders such as chronic toxic encephalopathy, signs of toxicity include changes in behaviour and memory. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Of moderate toxicity after short-term inhalation.

Information on: 2-heptanone

Acute inhalation toxicity

Experimental/calculated data:

LC50 rat (by inhalation): > 16.7 mg/l 4 h (OECD Guideline 403)

Mortality was observed. The vapour was tested.

Information on: 2-butoxyethyl acetate

Acute inhalation toxicity

Experimental/calculated data:

LC50 rat (by inhalation): > 400 ppm 4 h (OECD Guideline 403)

No mortality was observed. Highest concentration technically achievable. The vapour was tested.

Information on: Hexamethylen-1,6-diisocyanat Homopolymer

Acute inhalation toxicity

Experimental/calculated data:

LC50 rat (by inhalation): 1.500 mg/l 4.0 h (OECD Guideline 403)

An aerosol was tested.

Symptoms

allergic symptoms dazed state irritation of respiratory tract dizziness Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Irritation

Assessment of irritating effects:

The liquid splashed in the eyes may cause irritation and reversible damage. Skin contact causes slight irritation.

Respiratory/Skin sensitization

Assessment of sensitization:

Sensitization after skin contact possible.

Germ cell mutagenicity

Product: 50-420 2,5L VOC Hardener Normal

(50400517/SDS_GEN_NZ/EN)

Date of print: 18.04.2023

Assessment of mutagenicity:

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

Carcinogenicity

Assessment of carcinogenicity:

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

Reproductive toxicity

Assessment of reproduction toxicity:

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

Developmental toxicity

Assessment of teratogenicity:

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

Specific target organ toxicity (single exposure)

Causes temporary irritation of the respiratory tract. Possible narcotic effects (drowsiness or dizziness).

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

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

Aspiration hazard

No aspiration hazard expected.

Other relevant toxicity information

Based on the properties of the isocyanate components and considering toxicological data on similar product, this product may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the occupational exposure limit. Repeated inhalation may lead to a permanent respiratory disability.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:

Harmful to aquatic life. Harmful to aquatic life with long lasting effects. There are no test results available for this product. Do not allow to enter drains or waterways.

Mobility

Assessment transport between environmental compartments:

Product: 50-420 2,5L VOC Hardener Normal

(50400517/SDS_GEN_NZ/EN)

Date of print: 18.04.2023

No data available.

Persistence and degradability

Assessment biodegradation and elimination (H2O):

Biological degradability of hazardous substances mentioned in section 3:

Information on: 2-heptanone Elimination information:

69 % DOC reduction (28 d) (OECD Guideline 310) (aerobic, activated sludge, domestic, non-

adapted)

Information on: 2-butoxyethyl acetate

Elimination information:

88 % BOD of the ThOD (28 d) (OECD 301F; ISO 9408; 92/69/EEC, C.4-D) (aerobic, activated

sludge, domestic)

Bioaccumulation potential

Bioaccumulation potential:

No data available.

13. Disposal Considerations

Do not discharge into drains/surface waters/groundwater.

Observe national and local legal requirements.

Dispose of isocyanate waste in dry containers and never mix together with other wastes (reaction, dangerous pressure build up).

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

Residues in empty containers should be neutralised with decontaminant (see section 6).

14. Transport Information

Domestic transport:

UN number or ID number: UN 1866

UN proper shipping name: RESIN SOLUTION

Transport hazard class(es): 3
Packing group: III
Environmental hazards: no

Special precautions for

None known

user:

Further information

Hazchem Code:3Y IERG Number:14

Product: 50-420 2,5L VOC Hardener Normal

(50400517/SDS_GEN_NZ/EN)

Date of print: 18.04.2023

Sea transport

IMDG

UN number or ID number: UN 1866

UN proper shipping name: RESIN SOLUTION

Transport hazard class(es): 3
Packing group: III
Environmental hazards: no

Marine pollutant: NO

Special precautions for EmS: F-E; <u>S-E</u>

user:

Air transport

IATA/ICAO

UN number or ID number: UN 1866

UN proper shipping name: RESIN SOLUTION

Transport hazard class(es): 3
Packing group: III

Environmental hazards: No Mark as dangerous for the environment is needed

Special precautions for None known

user:

15. Regulatory Information

Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Tracking requirements do not apply to this substance.

A certified handler is not required for the handling of this substance.

HSNO Approval Number HSR002662

Surface Coatings and Colourants (Flammable) Group Standard 2017

16. Other Information

For multi-pack systems observe material safety data sheets of all components.Restricted to professional users.

Vertical lines in the left hand margin indicate an amendment from the previous version.

Version: 6.0

BASF Safety data sheet Date / Revised: 16.04.2023

Product: 50-420 2,5L VOC Hardener Normal

(50400517/SDS_GEN_NZ/EN)

Date of print: 18.04.2023

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