

Safety data sheet

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BASF Safety data sheet

Date / Revised: 17.02.2018

Product: **50-430 0,5L 2K Clear Hardener Slow VOC**

Version: 2.1

(30438025/SDS_GEN_NZ/EN)

Date of print 22.01.2020

1. Substance/preparation and manufacturer/supplier identification

50-430 0,5L 2K Clear Hardener Slow VOC

Manufacturer/supplier:

BASF New Zealand Ltd.
Regus Auckland Airport
Level 1, Quad 7, 6 Leonard Isitt Drive
PO Box 407 Shortland Street, Auckland 2022
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)

Acute toxicity: Cat. 4 (Inhalation - vapour)

Skin corrosion/irritation: Cat. 3

Serious eye damage/eye irritation: Cat. 2A

Skin sensitization: Cat. 1

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

Specific target organ toxicity — repeated exposure: Cat. 2

Flammable liquids: Cat. 3

Label elements and precautionary statement:

Pictogram:



Signal Word:
Warning

Hazard Statement:

H319	Causes serious eye irritation.
H316	Causes mild skin irritation.
H332	Harmful if inhaled.
H303	May be harmful if swallowed.
H317	May cause an allergic skin reaction.
H226	Flammable liquid and vapour.
H373	May cause damage to organs through prolonged or repeated exposure.
H335	May cause respiratory irritation.

Precautionary Statements (Prevention):

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P264	Wash with plenty of water and soap thoroughly after handling.
P242	Use only non-sparking tools.
P241	Use explosion-proof electrical/ventilating/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.
P260	Do not breathe dust or mist.
P272	Contaminated work clothing should not be allowed out of the workplace.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.

Precautionary Statements (Response):

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/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.
P363	Wash contaminated clothing before reuse.
P321	Specific treatment (see on this label).
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.

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.

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Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

Contains isocyanates. May produce an allergic reaction.

May produce an allergic reaction. Contains: HEXAMETHYLENE-1,6-DIISOCYANATE

3. Composition/information on ingredients

Chemical nature

polyisocyanate, organic solvent

Hazardous ingredients

Benzoic acid

Content (W/W): $\geq 1\%$ - $< 2\%$

CAS Number: 65-85-0

Acute Tox.: Cat. 5 (oral)

Acute Tox.: Cat. 5 (dermal)

Skin Corr./Irrit.: Cat. 2

Eye Dam./Irrit.: Cat. 1

STOT RE (Lung): Cat. 1 (by inhalation)

5-methylhexan-2-one

Content (W/W): $\geq 12.5\%$ - $< 15\%$

CAS Number: 110-12-3

Flam. Liq.: Cat. 3

Acute Tox.: Cat. 4 (Inhalation - vapour)

2-butoxyethyl acetate

Content (W/W): $\geq 10\%$ - $< 12.5\%$

CAS Number: 112-07-2

Flam. Liq.: Cat. 4

Acute Tox.: Cat. 4 (oral)

Acute Tox.: Cat. 4 (dermal)

Aquatic Acute: Cat. 3

Propanoic acid, 3-ethoxy-, ethyl ester

Content (W/W): $\geq 10\%$ - $< 12.5\%$

CAS Number: 763-69-9

Flam. Liq.: Cat. 3

Acute Tox.: Cat. 5 (oral)

Aquatic Acute: Cat. 3

1,6-hexamethylene diisocyanate

Content (W/W): $\geq 0.1\%$ - $< 0.2\%$

CAS Number: 822-06-0

Acute Tox.: Cat. 4 (oral)

Acute Tox.: Cat. 1 (Inhalation - mist)

Skin Corr./Irrit.: Cat. 2

Eye Dam./Irrit.: Cat. 2A

Resp. Sens.: Cat. 1

Skin Sens.: Cat. 1

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

HDI-oligomer (trimer)

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Content (W/W): $\geq 50\%$ - $< 75\%$ Acute Tox.: Cat. 4 (Inhalation - dust)
CAS Number: 28182-81-2 Acute Tox.: Cat. 4 (Inhalation - vapour)
Skin Sens.: Cat. 1
STOT SE: Cat. 3 (irr. to respiratory syst.)

4. First-Aid Measures

General advice:

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

If inhaled:

Remove affected person from danger area. Keep warm, calm and covered up. If breathing is irregular or stopped, administer artificial respiration. Seek medical assistance. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).

On skin contact:

Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. Do NOT use solvents or thinners.

On contact with eyes:

Contact lenses should be removed. Hold eyelids open and flush with copious amounts of clean, fresh water or a special eyewash solution. Seek medical assistance.

On ingestion:

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do not induce vomiting.

5. Fire-Fighting Measures

Suitable extinguishing media:

Foam (alcohol resistant), carbon dioxide, powders, water spray. Do not allow run-off from fire fighting to enter drains or water courses.

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.

6. Accidental Release Measures

Personal precautions:

Avoid contact with skin and eyes. Keep away from sources of ignition. Advice on product handling can be found in sections 7 and 8 of this safety data sheet. Avoid inhalation of vapour and spray mist. Ensure adequate ventilation. Avoid breathing vapours.

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.

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 (d:0,880) 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).

7. Handling and Storage

Handling

Avoid contact with skin and eyes. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Avoid inhalation of dust from sanding. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. 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. 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. Care should be taken when reopening partly used containers (pressurization!). Solvent vapours are heavier than air and spread along floors. Vapour forms explosive mixtures with air. Keep container dry and tightly closed in a cool well-ventilated place. Avoid heating to more than 50 °C. Provide adequate ventilation, if necessary by means of local exhaust ventilation at the work place. Exhaust ventilation required during spray application. Avoid all sources of ignition: heat, sparks, open flame. Avoid inhalation of vapour and spray mist. Do not use any sparking tools.

Storage

Keep away from strongly acid and strongly alkaline materials, from oxidizing agents, amines, alcohols and water.

Suitable materials for containers: Stove-lacquer R 78433, Stove-lacquer EHD0022, Carbon steel (Iron), tinned carbon steel (Tinplate)

Further information on storage conditions: Electrical equipment must be explosion-proof to the appropriate standard. Floors must be of conducting type and impermeable to the materials being

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stored. Keep container tightly closed. Never use pressure to empty; container is not a pressure vessel. Close containers carefully once opened and store upright in order to prevent any leakage. No smoking. Prevent unauthorized access. Precautions should be taken to minimise exposure to atmospheric humidity or water: carbon dioxide will be formed which in closed containers can result in pressurisation. Detailed information can be gained from the relevant technical data sheets. Always keep in containers of same material as the original one. Observe label precautions. Store in a dry, well ventilated place. Protect from direct sunlight. Keep away from sources of ignition. Keep away from heat.

Storage stability:

Storage temperature: 5.00 - 35.00 °C

8. Exposure controls and personal protection

Components with occupational exposure limits

5-methylhexan-2-one, 110-12-3;

STEL value 50 ppm (ACGIHTLV)

TWA value 20 ppm (ACGIHTLV)

TWA value 234 mg/m³ ; 50 ppm (OEL (NZ))

1,6-hexamethylene diisocyanate, 822-06-0;

TWA value 0.005 ppm (ACGIHTLV)

TWA value 0.02 mg/m³ (OEL (NZ))

Measured as: NCO

Note: These values apply to all isocyanates, including prepolymers, present in the workplace air as vapours, mist or dust.

STEL value 0.07 mg/m³ (OEL (NZ))

Measured as: NCO

Note: These values apply to all isocyanates, including prepolymers, present in the workplace air as vapours, mist or dust.

Personal protective equipment

Respiratory protection:

half-mask with A2P2 class combination filter When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators. Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet (sanding/ flatting) should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used. 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 374 is suitable: e.g.

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butyl rubber gloves - material thickness: 0,5 mm

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:

Under cool dry conditions, it is possible for the isocyanate to remain unreacted in the paint film for up to 30 hours after application. The country-specific occupational exposure limits applicable to the substances specified in section 3 must be taken into account. Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. Respiratory protective equipment should be worn by spray booth operatives (see "Personal protection" below). If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

9. Physical and Chemical Properties

Form:	liquid
Colour:	colourless
Odour:	specific
boiling temperature:	141.00 - 195.00 °C
Flash point:	23 °C
Flammability (solid/gas):	not applicable
Lower explosion limit:	36 g/m ³
Vapour pressure:	3.00 hPa (20 °C)
Density:	1.033 g/cm ³
Miscibility with water:	immiscible
Viscosity, kinematic:	7.3 mm ² /s
Flow time:	> 30 s (DIN EN ISO 2431; 3 mm)

10. Stability and Reactivity

Substances to avoid:

Keep away from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohols and water. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts slowly with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.

Hazardous reactions:

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

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

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.

11. Toxicological Information

Acute toxicity

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. The liquid splashed in the eyes may cause irritation and reversible damage. 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. The mixture has been assessed following regulation (EC) No 1272/2008. See sections 2 and 3 for details.

Contains isocyanates. Observe manufacturer's instructions.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:

There are no test results available for this product. Do not allow to enter drains or waterways. Based on available Data, the classification criteria are not met.

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:

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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)

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.

Bioaccumulation potential

Bioaccumulation potential:

No data available.

13. Disposal Considerations

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.

Dispose of in accordance with national, state and local regulations.

14. Transport Information

Domestic transport:

Hazard class: 3
Packing group: III
ID number: UN 1263
Hazard label: 3
Proper shipping name: PAINT

Further information

Hazchem Code:3Y

IERG Number:14

Sea transport

IMDG

Hazard class: 3
Packing group: III
ID number: UN 1263
Hazard label: 3
Marine pollutant: NO
Proper shipping name: PAINT

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Air transport

IATA/ICAO

Hazard class:	3
Packing group:	III
ID number:	UN 1263
Hazard label:	3
Proper shipping name:	PAINT

15. Regulatory Information

Hazard determining component(s) for labelling: BENZOIC ACID, 5-methylhexan-2-one, HDI-oligomer (trimer), HEXAMETHYLENE-1,6-DIISOCYANATE

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.

HSNO Approval Number HSR002662
Surface Coatings and Colourants (Flammable) Group Standard 2006
HSNO Classification: 3.1C 6.1D 6.1E 6.3B 6.4A 6.5B 6.9B

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

Tracking requirements do not apply to this substance.

Registration status:

NZIOC, NZ released / listed

16. Other Information

Recommended use: Sprayable

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.

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