

**BYK-P 9051**

Product code: 000000000000121257

Version 2.0 SDS\_APJ\_MY

Revision Date 26.11.2022

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**SECTION 1: Identification of the hazardous chemical and of the supplier****Product identifier**

Product name : BYK-P 9051  
Recommended use : Processing Additive

**Manufacturer or supplier's details**

Company : BYK-Chemie GmbH  
Address : Abelstrasse 45  
46483 Wesel  
Telephone : +49 281 670-23532  
Telefax : +49 281 670-23533  
E-mail address : GHS.BYK@altana.com  
Emergency telephone number : +60 3 6207 4347 (Malay and English)  
+65 3158 1074 (All languages)

**SECTION 2: Hazards identification****Classification of the hazardous chemical**

Hazardous to the aquatic environment - chronic hazard : Category 3

**Label elements**

Hazard pictograms : None  
Signal word : None  
Hazard statements : H412 Harmful to aquatic life with long lasting effects.  
Precautionary statements : **Prevention:**  
P273 Avoid release to the environment.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards which do not result in classification**

None known.

**SECTION 3: Composition and information of the ingredients of the hazardous chemical**

Substance / Mixture : Mixture  
Chemical nature : Combination of surface active substances and polymers

**Components**

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Chemical name	CAS-No.	Concentration (% w/w)
Fatty acids, C18-unsatd., dimers, 2-ethylhexyl esters	-	>= 20 -< 25
2-Propenoic acid, 2-ethylhexyl ester, reaction products with ethylenediamine-ethylenimine polymer, compds. with polyethylene-polypropylene glycol mono-Bu ether phosphate	398475-96-2	>= 5 -< 7

**SECTION 4: First aid measures**

- General advice : Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of eye contact : Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : No information available.  
No information available.
- Notes to physician : No information available.

**SECTION 5: Firefighting measures**
**Extinguishing media**

Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

**Physicochemical hazards arising from the chemical**

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Nitrogen oxides (NO<sub>x</sub>)  
Oxides of phosphorus  
Carbon oxides

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**Special protective equipment and precautions for fire-fighters**

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**SECTION 6: Accidental release measures**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
- Environmental precautions : Prevent product from entering drains. If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

**SECTION 7: Handling and storage****Handling****Precautions for safe handling**

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.

**Storage****Conditions for safe storage, including any incompatibilities**

- Conditions for safe storage : Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : No materials to be especially mentioned.
- Further information on storage stability : No decomposition if stored and applied as directed.

**SECTION 8: Exposure controls and personal protection****Control parameters**

Contains no substances with occupational exposure limit values.

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**Individual protection measures, such as personal protective equipment**

Eye/face protection	:	Safety glasses
Skin protection	:	Protective suit
Hand protection	:	
Material	:	Nitrile rubber
Break through time	:	> 120 min
Remarks	:	Wear suitable gloves.
Respiratory protection	:	No personal respiratory protective equipment normally required.
Hygiene measures	:	General industrial hygiene practice.

**SECTION 9: Physical and chemical properties**

Appearance	:	liquid
Colour	:	dark brown
Odour	:	characteristic
Odour Threshold	:	No data available
pH	:	7 (20 °C) Concentration: 1 % Method: Universal pH-value indicator
Melting point/freezing point	:	< 0 °C Method: derived
Initial boiling point and boiling range	:	> 200 °C Method: derived
Flash point	:	> 150 °C  Method: 49 (Pensky-Martens)
Evaporation rate	:	No data available
Flammability (liquids)	:	Sustains combustion
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available

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Vapour pressure	:	< 0.01 hPa Method: derived
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	0.97 g/cm <sup>3</sup> (20 °C, 1,013 hPa) Method: 4 (20°C oscillating U-tube)
Bulk density	:	Not applicable
Solubility(ies)	:	
Water solubility	:	immiscible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	> 200 °C Method: DIN 51794
Decomposition temperature	:	No data available
Viscosity	:	
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Surface tension	:	No data available

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**SECTION 10: Stability and reactivity**

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Stable under recommended storage conditions. No hazards to be specially mentioned.
Conditions to avoid	:	No data available
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

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**SECTION 11: Toxicological information**

Information on likely routes of exposure : None known.

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**Acute toxicity****Product:**

Acute oral toxicity : Remarks: No data available

**Components:****Fatty acids, C18-unsatd., dimers, 2-ethylhexyl esters:**Acute oral toxicity : LD50 Oral (Rat, female): > 2,000 mg/kg  
Method: OECD Test Guideline 423  
GLP: yesAcute dermal toxicity : LD50 Dermal (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

2-Propenoic acid, 2-ethylhexyl ester, reaction products with ethylenediamine-ethylenimine polymer, compds. with polyethylene-polypropylene glycol mono-Bu ether phosphate:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
GLP: yes**Skin corrosion/irritation****Product:**

Remarks : No data available

**Components:****Fatty acids, C18-unsatd., dimers, 2-ethylhexyl esters:**Species : EPISKIN human epidermis skin constructs  
Method : OECD Test Guideline 439  
Result : No skin irritation  
GLP : yes

2-Propenoic acid, 2-ethylhexyl ester, reaction products with ethylenediamine-ethylenimine polymer, compds. with polyethylene-polypropylene glycol mono-Bu ether phosphate:

Species : Rabbit  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes**Serious eye damage/eye irritation****Product:**

Remarks : No data available

**Components:****Fatty acids, C18-unsatd., dimers, 2-ethylhexyl esters:**

Species : Bovine corneal opacity and permeability assay (BCOP)

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Result : No eye irritation  
Method : OECD Test Guideline 437  
GLP : yes

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405  
GLP : yes

2-Propenoic acid, 2-ethylhexyl ester, reaction products with ethylenediamine-ethylenimine polymer, compds. with polyethylene-polypropylene glycol mono-Bu ether phosphate:

Species : Rabbit  
Result : Irritating to eyes.  
Assessment : Irritating to eyes.  
Method : OECD Test Guideline 405  
GLP : yes

**Respiratory or skin sensitisation****Product:**

Remarks : No data available

**Components:****Fatty acids, C18-unsatd., dimers, 2-ethylhexyl esters:**

Test Type : Mouse Local Lymph Node assay (LLNA)  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : Does not cause skin sensitisation.  
GLP : yes

2-Propenoic acid, 2-ethylhexyl ester, reaction products with ethylenediamine-ethylenimine polymer, compds. with polyethylene-polypropylene glycol mono-Bu ether phosphate:

Remarks : No data available

**Germ cell mutagenicity****Product:**

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

**Components:****Fatty acids, C18-unsatd., dimers, 2-ethylhexyl esters:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: In vitro mammalian cell gene mutation test (mouse)

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lymphoma)

Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 476  
 Result: negative  
 GLP: yes

Test Type: Micronucleus test  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 487  
 Result: negative  
 GLP: yes

**Carcinogenicity**
**Product:**

Remarks : No data available

**Reproductive toxicity**
**Product:**

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

**STOT - single exposure**
**Product:**

Remarks : No data available

**STOT - repeated exposure**
**Product:**

Remarks : No data available

**Repeated dose toxicity**
**Product:**

Remarks : No data available

**Components:**
**Fatty acids, C18-unsatd., dimers, 2-ethylhexyl esters:**

Species : Rat, male and female  
 LOAEL : 250 mg/kg  
 Application Route : Oral  
 Method : OECD Test Guideline 408  
 GLP : No information available.

Species : Mouse, male and female  
 LOAEL : 250 mg/kg

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Application Route : Oral  
 Method : OECD Test Guideline 408  
 GLP : No information available.  
  
 Species : Rat, male and female  
 NOAEL : 100 mg/kg  
 Application Route : Oral  
 GLP : yes

2-Propenoic acid, 2-ethylhexyl ester, reaction products with ethylenediamine-ethylenimine polymer, compds. with polyethylene-polypropylene glycol mono-Bu ether phosphate:

Remarks : No data available

**Aspiration toxicity**
**Product:**

No data available

**Further information**
**Product:**

Remarks : No data available

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**SECTION 12: Ecological information**
**Ecotoxicity**
**Product:**

Toxicity to fish :  
Remarks: No data available

Toxicity to algae/aquatic plants :  
Remarks: No data available

**Components:**
**Fatty acids, C18-unsatd., dimers, 2-ethylhexyl esters:**

Toxicity to fish : LL50 (Danio rerio (zebra fish)): > 10 mg/l  
 Exposure time: 96 h  
 Test Type: static test  
 Method: OECD Test Guideline 203  
 GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 100 mg/l  
 Exposure time: 48 h  
 Test Type: static test  
 Method: OECD Test Guideline 202  
 GLP: yes

Toxicity to algae/aquatic plants : ErL50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
 Exposure time: 72 h  
 Test Type: static test

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- Method: OECD Test Guideline 201  
GLP: yes
- Toxicity to microorganisms : IC50 (activated sludge): > 1,000 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209  
GLP: yes
- Toxicity to soil dwelling organisms : NOEC (Eisenia fetida (earthworms)): > 1,000 mg/kg  
Exposure time: 56 d  
End point: Reproduction  
Method: OECD Test Guideline 222  
GLP: yes
- 2-Propenoic acid, 2-ethylhexyl ester, reaction products with ethylenediamine-ethylenimine polymer, compds. with polyethylene-polypropylene glycol mono-Bu ether phosphate:
- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 8.0 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
GLP: yes
- Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1.0 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes

**Persistence and degradability****Product:**

Biodegradability : Remarks: No data available

**Components:****Fatty acids, C18-unsatd., dimers, 2-ethylhexyl esters:**Biodegradability : Result: Not readily biodegradable.  
Method: OECD Test Guideline 301B  
GLP: yes

2-Propenoic acid, 2-ethylhexyl ester, reaction products with ethylenediamine-ethylenimine polymer, compds. with polyethylene-polypropylene glycol mono-Bu ether phosphate:

Biodegradability : Result: Not readily biodegradable.  
Method: OECD Test Guideline 301B  
GLP: yes**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: No data available

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**Components:**

2-Propenoic acid, 2-ethylhexyl ester, reaction products with ethylenediamine-ethylenimine polymer, compds. with polyethylene-polypropylene glycol mono-Bu ether phosphate:

Bioaccumulation : Remarks: No data available

**Mobility in soil**

No data available

**Other adverse effects****Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life with long lasting effects.

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**SECTION 13: Disposal information****Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.

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**SECTION 14: Transport information****International Regulations****UNRTDG**

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable

**IATA-DGR**

UN/ID No. : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
Packing instruction (cargo aircraft) : Not applicable  
Packing instruction (passenger aircraft) : Not applicable

**IMDG-Code**

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable

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EmS Code : Not applicable  
Marine pollutant : Not applicable

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

Not applicable for product as supplied.

**Special precautions for user**

Not applicable

**SECTION 15: Regulatory information****Safety, health, and environmental regulations specific for the hazardous chemical**

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

**SECTION 16: Other information**

Date format : dd.mm.yyyy

**Full text of other abbreviations**

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United

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Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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