according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

# Sika® Aktivator-205



Date of last issue: 03.05.2024

Revision Date: 03.07.2024

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

1.1 Product identifier

Trade name : Sika® Aktivator-205

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

Product use : Pretreatment agent

1.3 Details of the supplier of the safety data sheet

Company name of supplier Sika Nederland B.V.

> Zonnebaan 56 3542 EG Utrecht Nederland

: +31-30-2410120 Telephone Telefax +31-30-2414482 E-mail address of person : EHS@nl.sika.com

responsible for the SDS

1.4 Emergency telephone number

+31-57-0854201

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

# Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2 H225: Highly flammable liquid and vapour.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Specific target organ toxicity - single ex-

posure, Category 3, Central nervous

system

H336: May cause drowsiness or dizziness.

### 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word Danger

Hazard statements H225 Highly flammable liquid and vapour.

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H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements : Prevention:

P210 Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No

smoking.

P233 Keep container tightly closed. P261 Avoid breathing mist or vapours.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immedi-

ately all contaminated clothing. Rinse skin

with water.

P370 + P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam to extinguish.

### Hazardous components which must be listed on the label:

propan-2-ol

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

# **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Registration number		
propan-2-ol	67-63-0	Flam. Liq. 2; H225	>=80
	200-661-7	Eye Irrit. 2; H319	
	01-2119457558-25-	STOT SE 3; H336	
	XXXX		

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titanium tetrabutanolate	5593-70-4	Flam. Liq. 3; H226	>= 1 - < 2,5
Contains:	227-006-8	Skin Irrit. 2; H315	
titanium tetraisopropanolate <= 1	01-2119967423-33-	Eye Dam. 1; H318	
%	XXXX	STOT SE 3; H336	
		(Central nervous	
		system)	
		STOT SE 3; H335	
		(Respiratory system)	

For explanation of abbreviations see section 16.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Do not induce vomiting without medical advice.

Rinse mouth with water.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

# 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Excessive lachrymation

Loss of balance

Vertigo

See Section 11 for more detailed information on health effects

and symptoms.

Risks : irritant effects

Causes serious eye irritation. May cause drowsiness or dizziness.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

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### **SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

Water

5.2 Special hazards arising from the substance or mixture

Hazardous combustion prod- : Carbon monoxide

ucts

No hazardous combustion products are known

5.3 Advice for firefighters

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

Further information Use water spray to cool unopened containers.

### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

Remove all sources of ignition. Deny access to unprotected persons.

Beware of vapours accumulating to form explosive concentra-

tions. Vapours can accumulate in low areas.

6.2 Environmental precautions

**Environmental precautions** Prevent product from entering drains.

If the product contaminates rivers and lakes or drains inform

respective authorities.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up Contain spillage, and then collect with non-combustible ab-

> sorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local

/ national regulations (see section 13).

### 6.4 Reference to other sections

For personal protection see section 8.

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# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours or spray mist.

Avoid exceeding the given occupational exposure limits (see

section 8).

Do not get in eyes, on skin, or on clothing. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Take precautionary measures against static discharge. Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapours).

Follow standard hygiene measures when handling chemical

products

Advice on protection against

fire and explosion

Use explosion-proof equipment. Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. Take precautionary

measures against electrostatic discharges.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

Store in cool place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store

in accordance with local regulations.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

# 7.3 Specific end use(s)

Specific use(s) : Consult most current local Product Data Sheet prior to any

use.

# SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters *	Basis *
propan-2-ol	67-63-0	TWA	200 ppm 500 mg/m3	DE TRGS 900



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### Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters *	Basis *
butan-1-ol	71-36-3	TWA	100 ppm 310 mg/m3	DE TRGS 900

<sup>\*</sup>The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

### 8.2 Exposure controls

### **Engineering measures**

Maintain air concentrations below occupational exposure standards.

Ensure adequate ventilation, especially in confined areas.

### Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166

Eye wash bottle with pure water

Hand protection : Chemical-resistant, impervious gloves complying with an ap-

proved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manu-

facturer specifications.

Suitable for short time use or protection against splashes:

Butyl rubber/nitrile rubber gloves (> 0,1 mm) Contaminated gloves should be removed.

Suitable for permanent exposure:

Viton gloves (0.4 mm), breakthrough time >30 min.

Skin and body protection : Protective clothing (e.g. Safety shoes acc. to EN ISO 20345,

long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionally recommended for mixing

and stirring work.

Respiratory protection : In case of inadequate ventilation wear respiratory protection.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe work-

ing limits of the selected respirator.

organic vapor filter (Type A)

A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 - Methods for determining inhalation exposure). This applies in particular to the mixing / stirring area. In case this is not sufficent to keep the concentrations under the occupational exposure limits then respiration protection measures must be used.

### **Environmental exposure controls**

General advice : Prevent product from entering drains.

Country NL 000000019904

<sup>\*</sup>The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

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If the product contaminates rivers and lakes or drains inform respective authorities.

# **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical state : liquid Colour : colourless

Odour : alcohol-like

Melting point/ range / Freez-

ing point

No data available

Boiling point/boiling range : 82,4 °C

Flammability (solid, gas) : No data available

### Upper/lower flammability or explosive limits

Upper explosion limit / Up- : Upper flammability limit

per flammability limit

12 %(V)

Lower explosion limit / : Lower flammability limit

Lower flammability limit

2 %(V)

Flash point : ca. 12 °C

Method: closed cup

Auto-ignition temperature : 425 °C

Decomposition temperature : No data available

pH : ca. 7 (20 °C)

**Viscosity** 

Viscosity, dynamic : ca. 2 mPa.s (20 °C)

Viscosity, kinematic : < 20,5 mm2/s (40 °C)

Solubility(ies)

Water solubility : soluble

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Partition coefficient: n-

octanol/water

: No data available

Vapour pressure : ca. 45 hPa

Density : ca. 0,783 g/cm3 (20 °C)

Relative vapour density : No data available

Particle characteristics : No data available

9.2 Other information

Flammability (liquids) : Not applicable

### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.

Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Strong acids and oxidizing agents

Aldehydes Amines Bases

### 10.6 Hazardous decomposition products

Hazardous decomposition

products

butan-1-ol

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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# **SECTION 11: Toxicological information**

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

### **Acute toxicity**

Not classified based on available information.

### **Components:**

propan-2-ol:

Acute oral toxicity : LD50 Oral (Rat): < 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 20 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg

### Skin corrosion/irritation

Not classified based on available information.

# Serious eye damage/eye irritation

Causes serious eye irritation.

### Respiratory or skin sensitisation

### Skin sensitisation

Not classified based on available information.

### Respiratory sensitisation

Not classified based on available information.

### Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

Not classified based on available information.

### Reproductive toxicity

Not classified based on available information.

# STOT - single exposure

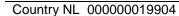
May cause drowsiness or dizziness.

### STOT - repeated exposure

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.



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### 11.2 Information on other hazards

### **Endocrine disrupting properties**

**Product:** 

Assessment The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

### Components:

propan-2-ol:

: LC50 (Pimephales promelas (fathead minnow)): 9.640 mg/l Toxicity to fish

Exposure time: 96 h

Method: OECD Test Guideline 203

aquatic invertebrates

Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): 9.714 mg/l

Exposure time: 24 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Scenedesmus capricornutum (fresh water algae)): >

100 mg/l

Exposure time: 72 h

titanium tetrabutanolate:

Toxicity to fish : LC50 (Fish): 1.825 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 1.300 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

: EC50: 225 mg/l

Exposure time: 96 h

# 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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### 12.5 Results of PBT and vPvB assessment

**Product:** 

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

# 12.6 Endocrine disrupting properties

**Product:** 

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

12.7 Other adverse effects

**Product:** 

Additional ecological infor-

mation

: There is no data available for this product.

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Product : The generation of waste should be avoided or minimized

wherever possible.

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe

way.

Dispose of surplus and non-recyclable products via a licensed

waste disposal contractor.

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains and sewers.

European Waste Catalogue : 08 01 11\* waste paint and varnish containing organic sol-

vents or other dangerous substances

Contaminated packaging : 15 01 10\* packaging containing residues of or contaminated

by dangerous substances

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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# **SECTION 14: Transport information**

### 14.1 UN number or ID number

ADR : UN 1219 IMDG : UN 1219 IATA : UN 1219

### 14.2 UN proper shipping name

ADR : ISOPROPANOL IMDG : ISOPROPANOL IATA : Isopropanol

### 14.3 Transport hazard class(es)

Class Subsidiary risks

 ADR
 : 3

 IMDG
 : 3

 IATA
 : 3

### 14.4 Packing group

### **ADR**

Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3
Tunnel restriction code : (D/E)

### **IMDG**

Packing group : II
Labels : 3
EmS Code : F-E, S-D

### IATA (Cargo)

Packing instruction (cargo : 364

aircraft)

Packing instruction (LQ) : Y341
Packing group : II

Labels : Flammable Liquids

IATA (Passenger)

Packing instruction (passen- : 353

ger aircraft)

Packing instruction (LQ) : Y341
Packing group : II

Labels : Flammable Liquids

### 14.5 Environmental hazards

### **ADR**

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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Environmentally hazardous no

**IMDG** 

Marine pollutant no

IATA (Passenger)

Environmentally hazardous nο

IATA (Cargo)

Environmentally hazardous no

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

### **SECTION 15: Regulatory information**

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

International Chemical Weapons Convention (CWC) Not applicable

Schedules of Toxic Chemicals and Precursors

**REACH Information:** All substances contained in our Products are

- registered by our upstream suppliers, and/or

- registered by us, and/or

- excluded from the regulation, and/or

- exempted from the registration.

REACH - Restrictions on the manufacture, placing on

the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

Conditions of restriction for the following entries should be considered:

Number on list 3

Number on list 75:

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

: None of the components are listed

(=> 0.1 %).

REACH - List of substances subject to authorisation

(Annex XIV)

Not applicable

Regulation (EC) on substances that deplete the ozone

layer

: Not applicable

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Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

: Not applicable

Regulation (EU) No 649/2012 of the European Parlia-

ment and the Council concerning the export and import

of dangerous chemicals

: Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P5c FLAMMABLE LIQUIDS

Volatile organic compounds : Law on the incentive tax for volatile organic compounds

(VOCV)

Volatile organic compounds (VOC) content: 97,97% w/w

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 97,97% w/w

### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

### **SECTION 16: Other information**

### **Full text of H-Statements**

H225 : Highly flammable liquid and vapour. H226 : Flammable liquid and vapour.

H315 : Causes skin irritation.

H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.
H335 : May cause respiratory irritation.
H336 : May cause drowsiness or dizziness.

### Full text of other abbreviations

Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Skin Irrit. : Skin irritation

STOT SE : Specific target organ toxicity - single exposure

DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.

DE TRGS 900 / TWA : Time Weighted Average

ADR : European Agreement concerning the International Carriage of

Dangerous Goods by Road

CAS : Chemical Abstracts Service
DNEL : Derived no-effect level

EC50 : Half maximal effective concentration

GHS : Globally Harmonized System

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IATA : International Air Transport Association

IMDG : International Maritime Code for Dangerous Goods

LD50 : Median lethal dosis (the amount of a material, given all at

once, which causes the death of 50% (one half) of a group of

test animals)

LC50 : Median lethal concentration (concentrations of the chemical in

air that kills 50% of the test animals during the observation

period)

MARPOL : International Convention for the Prevention of Pollution from

Ships, 1973 as modified by the Protocol of 1978

OEL : Occupational Exposure Limit

PBT : Persistent, bioaccumulative and toxic PNEC : Predicted no effect concentration

REACH : Regulation (EC) No 1907/2006 of the European Parliament

and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency

SVHC : Substances of Very High Concern

vPvB : Very persistent and very bioaccumulative

### **Further information**

# Classification of the mixture: Classification procedure:

Flam. Liq. 2 H225 Based on product data or assessment

Eye Irrit. 2 H319 Calculation method STOT SE 3 H336 Calculation method

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

Changes as compared to previous version!

NL / EN