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

1.1 Product identifier

Trade name : Sika® Primer-206 G+P

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

Product use : Pretreatment agent, Product is not intended for consumer use

1.3 Details of the supplier of the safety data sheet

Company : Sika Limited
Watchmead
Welwyn Garden City
Hertfordshire AL7 1BQ
United Kingdom

Telephone : +44 (0)1707 394444

1.4 Emergency telephone number

Emergency telephone number : +44 (0)1707 363899 (available during office hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Type of product : 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.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, 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.
		H317	May cause an allergic skin reaction.
		H319	Causes serious eye irritation.
		H336	May cause drowsiness or dizziness.
Supplemental Hazard Statements	:	EUH066	Repeated exposure may cause skin dryness or cracking.
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 dust/ fume/ gas/ mist/ vapours/ spray.
		P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
		Response:	
		P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately 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:
- 205-500-4 ethyl acetate
- 28182-81-2 Hexamethylene diisocyanate, oligomers
- 500-125-5 Isophorondiisocyanate homopolymer

Additional Labelling:

EUH204 Contains isocyanates. May produce an allergic reaction.

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
ethyl acetate 141-78-6 205-500-4	Flam. Liq.2; H225 Eye Irrit.2; H319 STOT SE3; H336	>= 40 - < 60

01-2119475103-46-XXXX		
Hexamethylene diisocyanate, oligomers 28182-81-2 Contains: hexamethylene-di-isocyanate <= 0,49 %	Acute Tox.4; H332 Skin Sens.1; H317 STOT SE3; H335	>= 5 - < 10
tris(p-isocyanatophenyl) thiophosphate 4151-51-3 223-981-9 01-2119948848-16-XXXX Contains: chlorobenzene <= 1 %	Acute Tox.4; H302	>= 5 - < 10
Isophorondiisocyanate homopolymer 53880-05-0 931-312-3 500-125-5 01-2119488734-24-XXXX Contains: 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate <= 0,49 %	Skin Sens.1B; H317 STOT SE3; H335	>= 5 - < 10
xylene 1330-20-7 215-535-7 01-2119488216-32-XXXX Contains: ethylbenzene <= 25 %	Flam. Liq.3; H226 Acute Tox.4; H332 Acute Tox.4; H312 Skin Irrit.2; H315 Eye Irrit.2; H319 STOT SE3; H335 STOT RE2; H373 Asp. Tox.1; H304	>= 1 - < 2,5
Substances with a workplace exposure limit :		
n-butyl acetate 123-86-4 204-658-1 01-2119485493-29-XXXX	Flam. Liq.3; H226 STOT SE3; H336	>= 2,5 - < 5
2-methoxy-1-methylethyl acetate 108-65-6 203-603-9 01-2119475791-29-XXXX Contains: 2-methoxypropyl acetate <= 1 %	Flam. Liq.3; H226	>= 1 - < 2,5

For the full text of the H-Statements mentioned in this Section, 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	:	Allergic reactions Excessive lachrymation Erythema Loss of balance Vertigo See Section 11 for more detailed information on health effects and symptoms.
Risks	:	irritant effects sensitising effects May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Alcohol-resistant foam, Carbon dioxide (CO2), Dry chemical
Unsuitable extinguishing media	:	Water, High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting	:	Do not use a solid water stream as it may scatter and spread fire.
Hazardous combustion prod-	:	No hazardous combustion products are known

ucts

5.3 Advice for firefighters

Special protective equipment for firefighters	:	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 concentrations. 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 materials for containment and cleaning up

Methods for cleaning up	:	Contain spillage, and then collect with non-combustible absorbent 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.

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. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the application 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 pre-cautionary 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.

Other data : 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

Components with workplace control parameters

Components	CAS-No.	Value	Control parame-ters *	Basis *
ethyl acetate	141-78-6	TWA	200 ppm	GB EH40
		STEL	400 ppm	GB EH40
		STEL	400 ppm 1.468 mg/m3	2017/164/EU
		TWA	200 ppm 734 mg/m3	2017/164/EU
Hexamethylene diisocyanate, oligomers	28182-81-2	TWA	0,02 mg/m3	GB EH40
		STEL	0,07 mg/m3	GB EH40
tris(p-isocyanatophenyl) thiophosphate	4151-51-3	TWA	0,02 mg/m3	GB EH40
		STEL	0,07 mg/m3	GB EH40
n-butyl acetate	123-86-4	TWA	150 ppm 724 mg/m3	GB EH40
		STEL	200 ppm 966 mg/m3	GB EH40
xylene	1330-20-7	STEL	100 ppm 441 mg/m3	GB EH40
		TWA	50 ppm 220 mg/m3	GB EH40
		TWA	50 ppm 221 mg/m3	2000/39/EC

		STEL	100 ppm 442 mg/m3	2000/39/EC
2-methoxy-1-methylethyl acetate	108-65-6	TWA	50 ppm 274 mg/m3	GB EH40
		STEL	100 ppm 548 mg/m3	GB EH40

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
tris(p-isocyanatophenyl) thiophosphate	4151-51-3	urinary diamine: 1µmol/mol creatinine (Urine)	Post task	GB EH40 BAT
xylene	1330-20-7	methyl hippuric acid: 650Millimoles per mole Creatinine (Urine)	After shift	GB EH40 BAT

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166
Eye wash bottle with pure water

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer specifications.

Suitable for short time use or protection against splashes:
Butyl rubber/nitrile rubber gloves (0,4 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 additionaly recommended for mixing and stirring work.

Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working 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. 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

Appearance	:	liquid
Colour	:	black
Odour	:	ester-like
Odour Threshold	:	No data available
Flash point	:	-4 °C
Autoignition temperature	:	333 °C
Decomposition temperature	:	No data available
Lower explosion limit (Vol-%)	:	2,1 %(V)
Upper explosion limit (Vol-%)	:	11,5 %(V)
Flammability	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
pH	:	ca. 7
Melting point/range / Freezing point	:	No data available
Boiling point/boiling range	:	> 77 °C
Vapour pressure	:	99,9915 hPa
Density	:	ca.1,02 g/cm3

		at 20 °C
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	No data available
Viscosity, dynamic	:	ca.10 mPa.s at 20 °C
Viscosity, kinematic	:	No data available
Relative vapour density	:	No data available
Evaporation rate	:	No data available

9.2 Other information
No data available

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. Avoid moisture.

10.5 Incompatible materials

Materials to avoid	:	Strong acids and strong bases Oxidizing agents Peroxides

10.6 Hazardous decomposition products

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Components:

ethyl acetate:

Acute oral toxicity	:	LD50 Oral (Rat): > 5.000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): ca. 1.600 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 5.000 mg/kg

Hexamethylene diisocyanate, oligomers:

Acute oral toxicity	:	LD50 Oral (Rat): > 5.000 mg/kg
Acute inhalation toxicity	:	Acute toxicity estimate: 1,5 mg/l Test atmosphere: dust/mist Method: Expert judgement

tris(p-isocyanatophenyl) thiophosphate:

Acute oral toxicity	:	LD50 Oral (Rat): > 675 mg/kg Remarks: see user defined free text
Acute inhalation toxicity	:	LC50 (Rat): 5,721 mg/l Exposure time: 4 h Test atmosphere: dust/mist

xylene:

Acute oral toxicity	:	LD50 Oral (Rat): 3.523 mg/kg
Acute dermal toxicity	:	LD50 Dermal (Rabbit): 1.700 mg/kg

n-butyl acetate:

Acute oral toxicity	:	LD50 Oral (Rat): > 5.000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 23,4 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 5.000 mg/kg

2-methoxy-1-methylethyl acetate:

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

Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.
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.

Further information

Product:

Remarks: Toxicology data for the components
Information given is based on data on the components and the toxicology of similar products.
Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Hexamethylene diisocyanate, oligomers :

Toxicity to fish	:	LC50: > 100 mg/l, 96 h, Danio rerio (zebra fish)
Toxicity to daphnia and other aquatic invertebrates	:	EC50: > 100 mg/l, 48 h, Daphnia magna (Water flea)

xylene :

Toxicity to fish	:	LC50: 3,3 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout)

n-butyl acetate :

Toxicity to algae	:	EC50: 647,7 mg/l, 72 h, Desmodesmus subspicatus (green algae)

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

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 Other adverse effects

Product:

Additional ecological information	:	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 solvents or other dangerous substances
Contaminated packaging	:	15 01 10* packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

ADR

14.1 UN number	:	1866
14.2 UN proper shipping name	:	RESIN SOLUTION
14.3 Transport hazard class(es)	:	3
14.4 Packing group	:	II

Classification Code	:	F1
Labels	:	3
Tunnel restriction code	:	(D/E)
14.5 Environmental hazards	:	no

IATA

14.1 UN number	:	1866
14.2 UN proper shipping name	:	Resin solution
14.3 Transport hazard class(es)	:	3
14.4 Packing group	:	II
Labels	:	3
14.5 Environmental hazards	:	no

IMDG

14.1 UN number	:	1866
14.2 UN proper shipping name	:	RESIN SOLUTION
14.3 Class	:	3
14.4 Packing group	:	II
Labels	:	3
EmS Number 1	:	F-E
EmS Number 2	:	S-E
14.5 Marine pollutant	:	no

14.6 Special precautions for user
No data available

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

SECTION 15: Regulatory information

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

Prohibition/Restriction

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
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: (3)

REACH Information:
All substances contained in our Products are
- preregistered or registered by our upstream suppliers, and/or
- preregistered or registered by us, and/or
- excluded from the regulation, and/or
- exempted from the registration.

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

		Quantity 1	Quantity 2
P5c	FLAMMABLE LIQUIDS	5.000 t	50.000 t

VOC-CH (VOCV) : 61,06 %

VOC-EU (solvent) : 61,53 %

If other regulatory information applies that is not already provided elsewhere in the Safety Data Sheet, then it is described in this subsection.

Health, safety and environmental regulation/legislation specific for the substance or mixture: : Environmental Protection Act 1990 & Subsidiary Regulations
Health and Safety at Work Act 1974 & Subsidiary Regulations
Control of Substances Hazardous to Health Regulations (COSHH)
May be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments.

Other regulations : Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

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.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.

Full text of other abbreviations

Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids

Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
CAS	Chemical Abstracts Service
DNEL	Derived no-effect level
EC50	Half maximal effective concentration
GHS	Globally Harmonized System
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

Classification of the mixture:		**Classification procedure:**
Flam. Liq. 2	H225	Based on product data or assessment
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	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 !