

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

1.1. Product identifier

Product form	: Substance
Name	: PTSA (Ketjenflex 6)
Chemical name	: p-Toluenesulfonamide
EC-No.	: 200-741-1
CAS-No.	: 70-55-3

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

1.2.1. Relevant identified uses

Main use category	: Manufacture, Formulation, Industrial use, Professional use, Intermediates, Synthesis, Laboratory use
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1.2.2. Uses advised against

Restrictions on use	: No information available
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1.3. Details of the supplier of the safety data sheet

Supplier

Axcentive SARL
 Chemin de Champouse
 13320 Bouc Bel Air - France
 T +33 442 694 090 - F +33 442 694 099
info@axcentive.com

Supplier

Axcentive Asia Pte Ltd
 30 Prinsep Street #06-01
 188647 Singapore
 T+65 8822 4572
info@axcentive.com

1.4. Emergency telephone number

Emergency number	: GLOBAL INCIDENT RESPONSE HOTLINE (ACCESS CODE: 333881): Europe: +1 760 476 3962, North-America: 1.866.519.4752, South-America: 1.760.476.3962, Asia Pacific: +86-4001203572, Middle East/Africa: 1-760-476-3959, Australia: +61-280363166, New Zealand: +64 800 451719
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

Other information	: UFI: Not required, Nano material: Not required.
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PTSA (Ketjenflex 6)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Toluene-4-sulphonamide	(CAS-No.) 70-55-3 (EC-No.) 200-741-1 (REACH-no) 01-2119966135-35	100	Not classified

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: No hazards which require special first aid measures.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms occur.
First-aid measures after skin contact	: Wash skin with plenty of water and soap. Remove contaminated clothing and shoes. Get medical attention immediately if symptoms occur.
First-aid measures after eye contact	: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Get medical attention immediately if symptoms occur.
First-aid measures after ingestion	: Rinse mouth with water. Drink plenty of water. Get medical attention immediately if symptoms occur.

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

Symptoms/effects : No acute and delayed symptoms and effects are observed.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Water spray. Dry powder. Carbon dioxide.
Unsuitable extinguishing media	: None known.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released. Nitrogen oxides. Sulphur oxides. Ammonia.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Do not breathe dust. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

PTSA (Ketjenflex 6)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so.
Methods for cleaning up : Avoid dust formation. Shovel or sweep up and put in a closed container for disposal. After cleaning, flush traces away with water.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety practice. Ensure good ventilation of the work station. Avoid dust formation. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed in a cool, well-ventilated place. Protect from moisture.
Incompatible materials : Acids. TMB-solution.
Heat and ignition sources : Keep away from heat, sparks and flames.

7.3. Specific end use(s)

No additional information.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

Monitoring methods	
Monitoring methods	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Biological monitoring methods	Not established

PTSA (Ketjenflex 6)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Toluene-4-sulphonamide (70-55-3)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	13.5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	19.1 mg/m ³
Long-term - local effects, inhalation	10 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	1.6 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	5.65 mg/m ³
Long-term - systemic effects, dermal	8.1 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.15 mg/l
PNEC aqua (marine water)	0.015 mg/l
PNEC aqua (intermittent, freshwater)	1.02 mg/l
PNEC (Soil)	
PNEC soil	0.159 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	1.05 mg/l

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure adequate ventilation, especially in confined areas.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:			
Type	Use	Characteristics	Standard
Safety goggles		clear	EN 166

8.2.2.2. Skin protection

Skin and body protection:	
Wear suitable protective clothing	
Type	Standard
Long sleeved protective clothing	EN ISO 13982

PTSA (Ketjenflex 6)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Hand protection:					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Protective gloves	Nitrile rubber (NBR), Butyl rubber, Polyvinylchloride (PVC), Viton® II, Neoprene rubber (HNBR)	5 (> 240 minutes)	0.13		EN 374

8.2.2.3. Respiratory protection

Respiratory protection:			
In case of insufficient ventilation, wear suitable respiratory equipment			
Device	Filter type	Condition	Standard
Dust mask	Type FFP2	Measures in case of dust release	EN 149, EN 143

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Other exposure controls

Environmental exposure controls:

Avoid release to the environment. Do not allow into drains or water courses.

Other information:

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: White
Appearance	: Crystalline powder
Odour	: Almost odourless
Odour threshold	: Not available
Melting point	: 136.8 °C
Freezing point	: Not applicable
Boiling point	: Decomposes
Flammability	: Not flammable
Explosive properties	: Not explosive
Explosive limits	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: 187 °C
pH	: Neutral
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Solubility	: Water: 3.1 g/l (@ 20°C)
Partition coefficient n-octanol/water (Log Pow)	: 0.6 (@ 20°C)
Vapour pressure	: 0.0003 Pa (@ 20°C)
Density	: Not available
Relative density	: 1.358 (@ 20°C)
Relative vapour density at 20°C	: Not applicable
Particle size	: Not available
Particle size distribution	: Not available

PTSA (Ketjenflex 6)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Oxidising properties : Non oxidizing

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with: Acids (heat formation).

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerisation: Will not occur.

10.4. Conditions to avoid

Keep away from heat, sparks and flames. Protect from moisture.

10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

Toxic fumes may be released. Nitrogen oxides. Sulphur oxides. Ammonia.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Toluene-4-sulphonamide (70-55-3)	
LD50 oral rat	2330 mg/kg (OECD 401 method)
LD50 dermal rabbit	7500 mg/kg

Skin corrosion/irritation : Not classified
pH: Neutral

Additional information : In vivo, Rabbit : (OECD 404 method) (Not irritating)

Serious eye damage/irritation : Not classified
pH: Neutral

Additional information : In vivo, Rabbit : (OECD 405 method) Not irritating

Respiratory or skin sensitisation : Not classified

Additional information : Did not cause sensitisation, Mouse : (OECD 429 method)

Germ cell mutagenicity : Not known to cause heritable genetic damage

Additional information : In vitro: Negative (OECD 471 method), (OECD 473 method), (OECD 476 method)
In vivo: Negative (OECD 474 method)

Carcinogenicity : Contains no ingredient listed as a carcinogen

Reproductive toxicity : Not known to cause birth defects or have a deleterious effect on a developing fetus. Not known to adversely affect reproductive functions and organs

Additional information : NOAEL, oral, F1 : 113 mg/kg bw/d (OECD 414 method) Developmental toxicity

STOT-single exposure : No known effects from this product.

STOT-repeated exposure : Not classified

Additional information : NOAEL, Rat, Oral : 65 mg/kg bw/d (OECD 416 method)

PTSA (Ketjenflex 6)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Aspiration hazard : No known effects from this product.

PTSA (Ketjenflex 6) (70-55-3)

Viscosity, kinematic	Not applicable
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11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : Contains no substances identified as having endocrine disrupting properties

11.2.2 Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Toluene-4-sulphonamide (70-55-3)

LC50 fish 1	102 mg/l Rainbow trout
EC50 Daphnia 1	210 mg/l Daphnia magna (OECD 202 method)
EC50 72h - Algae [1]	170 mg/l
LOEC (chronic)	100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	49 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic crustacea	49 mg/l
NOEC chronic algae	7.7 mg/l

12.2. Persistence and degradability

PTSA (Ketjenflex 6) (70-55-3)

Persistence and degradability	Readily biodegradable. (OECD 301D method).
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12.3. Bioaccumulative potential

PTSA (Ketjenflex 6) (70-55-3)

Bioconcentration factor (BCF REACH)	2.2
Partition coefficient n-octanol/water (Log Pow)	0.6 (@ 20°C)
Bioaccumulative potential	No bioaccumulation.

12.4. Mobility in soil

PTSA (Ketjenflex 6) (70-55-3)

Mobility in soil	Adsorbs into the soil: Not expected
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12.5. Results of PBT and vPvB assessment

PTSA (Ketjenflex 6) (70-55-3)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

PTSA (Ketjenflex 6)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : Contains no substances identified as having endocrine disrupting properties

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

PTSA (Ketjenflex 6)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Not listed on REACH Annex XVII

Not listed on the REACH Candidate List

Not listed on REACH Annex XIV (Authorisation List)

Not listed on the PIC list (Regulation EU 649/2012)

Not listed on the POP list (Regulation EU 2019/1021)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

A chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

SDS EU format according to COMMISSION REGULATION (EU) 2020/878. Full Layout. Exposure controls/personal protection. Occupational Exposure Limits. Endocrine disrupting properties. Toxicological information. Respiratory protection.

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration factor
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
NOEC	No-Observed Effect Concentration
PBT	Persistent Bioaccumulative Toxic
vPvB	Very Persistent and Very Bioaccumulative
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

Safety Data Sheet applicable for regions : IE - Ireland;GB - United Kingdom

SDS EU (REACH Annex II)

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.