

## SAFETY DATA SHEET

### 1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Product Name COLACRYL® TS1693, TS1897, TS2143, TS2210  
 Product Description A mixture of Polymethylmethacrylate and Adipic acid.  
 UFI NX30-M0ER-X00M-GMCK

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

Identified use(s) Use at industrial sites.  
 Industrial use only.  
 Glass separation.

Uses advised against Use at non-industrial sites.  
 Not intended for thermal processing.

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer:  
 Mitsubishi Chemical UK Limited, Specialty Polymers and Resins, Horndale Avenue, Newton  
 Aycliffe, County Durham, DL5 6YE, United Kingdom  
 Tel: +44 (0)1325 300990  
 mcm.sdsinfo@mcgc.com

Supplier:  
 Lucite International Alpha B.V., Merseyweg 16, 3197 KG Botlek, The Netherlands  
 Tel: +31 (0)181-233 233  
 mcm.sdsinfo@mcgc.com

#### 1.4 Emergency telephone number

+44 (0) 1642 452461  
 01 809 2566

### 2. SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

According to Regulation (EC) No. 1272/2008 (CLP)

Serious eye damage / eye irritation Category 2.

H319

See section: 16.

#### 2.2 Label elements



Signal word  
 Hazard statement(s)  
 Precautionary statement(s)

Warning  
 H319: Causes serious eye irritation.  
 P264: Wash thoroughly after handling.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313: If eye irritation persists: Get medical advice/attention.  
 P501: Dispose of contents/container to hazardous waste in accordance with local, state or national legislation. Incinerate under approved controlled conditions, using incinerators suitable for the disposal of noxious chemical waste.

EUH208: Contains: (Methyl methacrylate, Dibenzoyl peroxide). May produce an allergic reaction.

EUH210: Safety data sheet available on request.

UFI

NX30-M0ER-X00M-GMCK

### 2.3 Other hazards

Not classified as PBT or vPvB. Combustible but not readily ignited. May form combustible dust concentrations in air. Does not cause endocrine disruption.

## 3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

### 3.2 Mixtures

Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below.

According to Regulation (EC) No. 1272/2008 (CLP)

Substance	%W/W	EC No.	Registration number(s)	Hazard Class and Category Code(s)	Hazard statement Code(s)
Adipic acid	50	204-673-3	01-2119457561-38	Eye Irrit. 2	H319
Acrylic polymer	>48	-	-	-	-
Methyl methacrylate	<1	201-297-1	01-2119452498-28	Flam. Liq. 2 Skin Irrit. 2 Skin Sens. 1 STOT SE 3	H225 H315 H317 H335
Dibenzoyl peroxide	<1	202-327-6	01-2119511472-50	Org. Perox. B Skin Sens. 1 Eye Irrit. 2 Aquatic Acute 1 Aquatic Chronic 1	H241 H317 H319 H400 H410  M Acute=10 M Chronic=10

For full text of H phrases see section 16.

## 4. SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

Inhalation IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Skin Contact IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention.  
Eye Contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  
Ingestion IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Obtain medical attention if ill effects occur.

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

Causes serious eye irritation.

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

Treat symptomatically.

## 5. SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable Extinguishing Media Water spray, foam, dry powder or CO<sub>2</sub>.  
Unsuitable extinguishing media Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

Combustible but not readily ignited. May form combustible dust concentrations in air. Combustion or thermal decomposition will evolve toxic, irritant and flammable vapours. This product can form flammable dust clouds at elevated temperatures. The minimum ignition temperature of a dust cloud of a similar polymer has been measured at approximately 480°C (IEC 1241-2-1).

### 5.3 Advice for firefighters

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

## 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Caution - spillages may be slippery.

### 6.2 Environmental precautions

Prevent release to the environment.

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

Contain spillages. Collect in containers for disposal using approved dust respirator.

### 6.4 Reference to other sections

See section: 8, 13

## 7. SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Do not eat, drink or smoke at the workplace. Product as supplied: Avoid contact with eyes. Avoid prolonged skin contact. Unlikely to represent a dust hazard under normal handling conditions.

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

Acrylic polymers are supplied in either bags or bulk containers. Keep containers in a clean, cool and dry area away from heat sources. Natural ventilation is adequate.

Storage temperature (°C):

Preferably not exceeding 40°C.

Incompatible materials:

Polymer contains residual benzoyl peroxide. This may react with oxidising agents, reducing agents, acids, bases and amines leading to decomposition.

### 7.3 Specific end use(s)

Use at industrial sites.

Industrial use only.

Glass separation.

## 8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Substance	CAS No.	LTEL ppm (8Hr TWA)	LTEL mg/m <sup>3</sup> (8Hr TWA)	STEL ppm	STEL mg/m <sup>3</sup>	Notes
Adipic acid	124-04-9		5			
Dibenzoyl peroxide	94-36-0		5			Sens.
Dust (total inhalable dust) (respirable dust)			10 4			
Traces of: Aluminium oxides total inhalable dust respirable dust	1344-28-1		10 4			

Substance	CAS No.	DNEL	Oral	Inhalation	Dermal
Adipic acid	124-04-9	Worker - Long Term - Local effects		5 mg/m <sup>3</sup>	
		Worker - Long Term - Systemic effects		264 mg/m <sup>3</sup>	38 mg/kg body weight/day
		Worker - Short term - Local effects		5 mg/m <sup>3</sup>	
		Worker - Short term - Systemic effects		264 mg/m <sup>3</sup>	38 mg/kg body weight/day
		Consumer - Long Term - Local effects			
		Consumer - Long Term - Systemic effects	19 mg/kg body weight/day	65 mg/m <sup>3</sup>	19 mg/kg body weight/day
		Consumer - Short term - Local effects			
		Consumer - Short term - Systemic effects	19 mg/kg body weight/day	65 mg/m <sup>3</sup>	19 mg/kg body weight/day

Substance	CAS No.		PNEC
Adipic acid	124-04-9	Fresh water	0.126 mg/l
		Fresh water (sediment)	0.484 mg/kg
		Sea water	0.0126 mg/l
		Sea water (sediment)	0.0484 mg/kg
		Sewage Treatment Plant	59.1 mg/l
		Soil	0.0228 mg/kg
		Air	

## 8.2 Exposure controls

### Appropriate engineering controls

Do not eat, drink or smoke at the workplace. Provide adequate ventilation, including appropriate local extraction, to ensure that the occupational exposure limit is not exceeded. Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required. The following information is given as general guidance.

### Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection



Wear eye/face protection. Goggles giving complete protection to eyes.

#### Skin protection



Wear suitable gloves.

Suitable materials: Butyl; EN 374.

Suitability of gloves should be confirmed with glove manufacturer. Change gloves, if contamination occurs or duration of activity exceeds breakthrough time. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

#### Respiratory protection



A suitable dust mask or dust respirator with filter type P3 or FFP3 (EN143 or EN149) may be appropriate. In the unlikely event of formation of particularly high levels of dust a self contained breathing apparatus may be appropriate.

### Environmental exposure controls

Contain spillages. Collect in containers for disposal using approved dust respirator. Prevent release to the environment.

## 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

Physical state	Fine beads.
Colour	White.
Odour	Characteristic.
Softening Point (°C)	~150
Boiling Point (°C)	Not available.
Flammability	Not available.
Flammable Limits	Not applicable.
Flash Point (°C)	196 ( Adipic acid )
Auto Ignition Temperature (°C)	>400
pH	Not available.
Viscosity (mPa. s)	Not available.
Solubility (Water)	Insoluble.
Solubility (Other)	Not available.
Partition Coefficient (n-Octanol/water)	Not applicable.
Vapour pressure (Pascal)	<10 at 20°C
Bulk Density (g/ml)	700 kg/m <sup>3</sup>
Vapour Density (Air=1)	Not applicable.
Particle characteristics	Not available.

## 9.2 Other information

Explosive properties	Weakly to moderately explosible.
Oxidising properties	Not applicable.
St Class	1
Relative Evaporation Rate (Ether = 1)	Not applicable.

# 10. SECTION 10: STABILITY AND REACTIVITY

## 10.1 Reactivity

Non-reactive material.

## 10.2 Chemical stability

Stable under normal conditions.

## 10.3 Possibility of hazardous reactions

None known.

## 10.4 Conditions to avoid

Avoid dust generation. Keep away from heat.

## 10.5 Incompatible materials

Polymer contains residual benzoyl peroxide. This may react with oxidising agents, reducing agents, acids, bases and amines leading to decomposition.

## 10.6 Hazardous decomposition products

Methacrylate monomer vapours, Carbon dioxide, Carbon monoxide, Cyclopentanone.

# 11. SECTION 11: TOXICOLOGICAL INFORMATION

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

### Acute toxicity

Ingestion

Based upon the available data, the classification criteria are not met.  
Low oral toxicity.

Inhalation

Based upon the available data, the classification criteria are not met.  
High concentrations of dust may be irritant to the respiratory tract.

Skin corrosion/irritation

Based upon the available data, the classification criteria are not met.  
Repeated and/or prolonged skin contact may cause irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Sensitisation

It is not a skin sensitiser. (By analogy with similar materials)  
Contains: (Methyl methacrylate, Dibenzoyl peroxide). During normal handling this will not constitute a hazard. If the polymer matrix is destroyed e.g. when the product is dissolved in organic solvent, chemical residues will be released from the polymer matrix. Under these conditions, they may produce an allergic reaction in persons already sensitised.

Carcinogenicity  
Germ cell mutagenicity  
Reproductive toxicity

Based upon the available data, the classification criteria are not met.  
Based upon the available data, the classification criteria are not met.  
Based upon the available data, the classification criteria are not met.

STOT - single exposure  
STOT - repeated exposure

Based upon the available data, the classification criteria are not met.  
Based upon the available data, the classification criteria are not met.

Aspiration hazard

Based upon the available data, the classification criteria are not met.

## 11.2 Information on other hazards

Other hazards

Does not cause endocrine disruption.

## 12. SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

The product is predicted to have low toxicity to aquatic organisms.

### 12.2 Persistence and degradability

The product is non-biodegradable in soil. There is no evidence of degradation in soil and water.

### 12.3 Bioaccumulative potential

The product has low potential for bioaccumulation.

### 12.4 Mobility in soil

The product is predicted to have low mobility in soil.

### 12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

### 12.6 Endocrine disrupting properties

Does not cause endocrine disruption.

### 12.7 Other adverse effects

None.

## 13. SECTION 13: DISPOSAL CONSIDERATIONS

Certain packages are returnable. Please consult your local office for further details. Ensure that all packaging is disposed of safely.

### 13.1 Waste treatment methods

This product meets the criteria for synthetic polymer microparticles as laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006.

Prevent release to the environment. Incineration may be used to recover energy value. Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company. Consult an accredited waste disposal contractor or the local authority for advice.

## 14. SECTION 14: TRANSPORT INFORMATION

### 14.1 UN number

Not applicable.

#### 14.2 UN Proper Shipping Name

Not applicable.

#### 14.3 Transport hazard class(es)

Not applicable.

#### 14.4 Packing group

Not applicable.

#### 14.5 Environmental hazards

Not applicable.

#### 14.6 Special precautions for user

Not applicable.

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

Not applicable.

### 15. SECTION 15: REGULATORY INFORMATION

Regulatory obligations are country/region specific. Compliance statements are available. Please confirm regulatory status for individual country/region with the supplier before placing on the market.

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

Regulation (EC) No 1272/2008 (Classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006).

The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council. Entry 78 Paragraph 4(a) allows the supply of synthetic polymer microparticles for use at industrial sites.

#### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this substance/mixture.

Appropriate information from exposure scenarios from component substances relevant to uses of this mixture have been incorporated into the core sections (1-16) of this safety data sheet.

### 16. SECTION 16: OTHER INFORMATION

This Safety Data Sheet was prepared in accordance with Commission Regulation (EU) 2020/878.

The following sections contain revisions or new statements: 1, 3, 4, 6, 7, 8, 13, 15

Date of preparation: 17 -October- 2025

#### LEGEND

Note: Not all of the following are necessarily contained in this Safety Data Sheet:

IOELV: Indicative Occupational Exposure Limit Value

WEL: Workplace Exposure Limit (UK HSE EH40)

Bmgv: Biological Monitoring Guidance Value

Sen: Capable of causing respiratory sensitisation

Sk: Can be absorbed through skin

Carc: Capable of causing cancer and/or heritable genetic damage

CHAN: Chemical Hazard Alert Notice

COM: The company aims to control exposure in its workplace to this limit

LTEL: Long Term Exposure Limit

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

PNEC: Predicted No-Effect Concentration

DNEL: Derived No-Effect Level

STOT: Specific Target Organ Toxicity

Repr.: Reproductive toxicity

Aquatic acute/chronic: Hazardous to the aquatic environment

Full text of H phrases

- H225: Highly flammable liquid and vapour.
- H241: Heating may cause a fire or explosion.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation.
- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.

**MEDICAL USE: CAUTION: DO NOT USE IN MEDICAL APPLICATIONS INVOLVING IMPLANTATION IN THE HUMAN BODY.**

Mitsubishi Chemical UK Limited has performed no clinical testing on the use of this product in any medical application. Mitsubishi Chemical UK Limited has no data to support the use of this product in any medical application. This product was not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. Mitsubishi Chemical UK Limited has neither sought, nor received, approval from any regulatory agency for the use of this product in implantation in the human body or in contact with internal body fluids or tissues.

It is the responsibility of the end-product manufacturer to identify all market and use-specific regulations and to ensure compliance with these regulations.

Subject to the exclusions and limitations set out below the Information contained in this publication or as otherwise supplied to the User is believed to be accurate and has been given in good faith. It is for the User to use the Information contained in this publication or as otherwise supplied to the User with care and satisfy itself of the suitability of the product for their intended use and the applicability of the advice given. Except to the extent that exclusion is prevented by applicable law Mitsubishi Chemical UK Limited gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded and accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.