

Safety Data Sheet according to (EC) No 1907/2006 as amended

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SDS No.: 484895

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Replaces version from: 07.02.2018

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

1.1. Product identifier

LOCTITE CAT 50-2 AMB known as Catalyst 50-2 AMB 120 GR

LOCTITE CAT 50-2 AMB known as Catalyst 50-2 AMB 120 GR

Contains:

dibutyltin dilaurate CAS-No. 77-58-7

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

Intended use:

Catalyst

1.3. Details of the supplier of the safety data sheet

Henkel Ltd

Adhesives

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

 $SDS in fo. Adhesive @\,henkel.com$

For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.com.

1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Acute toxicity Category 4

H302 Harmful if swallowed. Route of Exposure: Oral

Chronic hazards to the aquatic environment Category 1

H410 Very toxic to aquatic life with long lasting effects.

Acute hazards to the aquatic environment Category 1

H400 Very toxic to aquatic life.

Specific target organ toxicity - repeated exposure Category 1

H372 Causes damage to organs through prolonged or repeated exposure.

Target organ: Immune system

Specific target organ toxicity - single exposure Category 1

H370 Causes damage to organs.

Target organ: thymus

Toxic to reproduction Category 1B

H360FD May damage fertility. May damage the unborn child.

Germ cell mutagenicity Category 2

H341 Suspected of causing genetic defects.

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

Serious eye irritation Category 2

H319 Causes serious eye irritation.

2.2. Label elements

Response

Label elements (CLP):

Hazard pictogram:



Signal word: Danger

Hazard statement: H302 Harmful if swallowed.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H341 Suspected of causing genetic defects.

H360FD May damage fertility. May damage the unborn child.

H370 Causes damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Supplemental information Restricted to professional users.

Precautionary statement: P201 Obtain special instructions before use. **Prevention** P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing.

Precautionary statement: P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention. P308+P313 IF exposed or concerned: Get medical advice/attention. P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.

2.3. Other hazards

None if used properly.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

Following substances are present in a concentration >= 0.1% and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in concentration ≥ the concentration limit that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.1. Substances

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M- factors and ATEs	Add. Information
dibutyltin dilaurate 77-58-7 201-039-8 01-2119496068-27	50- 100 %	Acute Tox. 4, Oral, H302 Aquatic Chronic 1, H410 Aquatic Acute 1, H400 STOT RE 1, H372 STOT SE 1, H370 Repr. 1B, H360FD Muta. 2, H341 Skin Sens. 1, H317 Eye Irrit. 2, H319	M acute = 1 M chronic = 1 ===== oral:ATE = 500 mg/kg	

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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

INGESTION: Nausea, vomiting, diarrhea, abdominal pain.

Causes burns.

SKIN: Rash, Urticaria.

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

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

water, carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Additional information:

In case of fire, keep containers cool with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Wear protective equipment.

Ensure adequate ventilation.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

For small spills wipe up with paper towel and place in container for disposal.

For large spills absorb onto inert absorbent material and place in sealed container for disposal.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid skin and eye contact.

See advice in section 8

Hygiene measures:

Good industrial hygiene practices should be observed.

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction.

Keep container tightly sealed.

Refer to Technical Data Sheet

7.3. Specific end use(s)

Catalyst

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Great Britain

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Dibutyltin dilaurate 77-58-7 [TIN COMPOUNDS, ORGANIC, EXCEPT CYHEXATIN (ISO), (AS SN)]		0,1	Time Weighted Average (TWA):		EH40 WEL
Dibutyltin dilaurate 77-58-7 [TIN COMPOUNDS, ORGANIC, EXCEPT CYHEXATIN (ISO), (AS SN)]			Skin designation:	Can be absorbed through the skin.	EH40 WEL
Dibutyltin dilaurate 77-58-7 [TIN COMPOUNDS, ORGANIC, EXCEPT CYHEXATIN (ISO), (AS SN)]		0,2	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL

Occupational Exposure Limits

Valid for Ireland

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Dibutyltin dilaurate 77-58-7 [TIN, ORGANIC COMPOUNDS]		0,2	Short Term Exposure Limit (STEL):	15 minutes Indicative OELV	IR_OEL
Dibutyltin dilaurate 77-58-7 [TIN. ORGANIC COMPOUNDS]		0,1	Time Weighted Average (TWA):	Indicative OELV	IR_OEL

$\label{eq:predicted} \textbf{Predicted No-Effect Concentration (PNEC):}$

Name on list	Environmental		Value				Remarks
	Compartment	period	mg/l	ppm	mg/kg	others	
dibutyltin dilaurate 77-58-7	aqua (freshwater)		0,000463 mg/l	pp	mg/ng	Guicis	
dibutyltin dilaurate 77-58-7	aqua (marine water)		0,000046 mg/l				
dibutyltin dilaurate 77-58-7	aqua (intermittent releases)		0,005 mg/l				
dibutyltin dilaurate 77-58-7	sewage treatment plant (STP)		100 mg/l				
dibutyltin dilaurate 77-58-7	sediment (freshwater)				0,05 mg/kg		
dibutyltin dilaurate 77-58-7	sediment (marine water)				0,005 mg/kg		
dibutyltin dilaurate 77-58-7	Soil				0,0407 mg/kg		
dibutyltin dilaurate 77-58-7	oral				0,2 mg/kg		

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
dibutyltin dilaurate 77-58-7	Workers	dermal	Acute/short term exposure - systemic effects		2,08 mg/kg	
dibutyltin dilaurate 77-58-7	Workers	Dermal	Long term exposure - systemic effects		0,43 mg/kg	
dibutyltin dilaurate 77-58-7	Workers	inhalation	Long term exposure - systemic effects		0,02 mg/m3	
dibutyltin dilaurate 77-58-7	General population	dermal	Acute/short term exposure - systemic effects		0,5 mg/kg	
dibutyltin dilaurate 77-58-7	General population	inhalation	Acute/short term exposure - systemic effects		0,04 mg/m3	
dibutyltin dilaurate 77-58-7	General population	oral	Acute/short term exposure - systemic effects		0,02 mg/kg	
dibutyltin dilaurate 77-58-7	General population	dermal	Long term exposure - systemic effects		0,16 mg/kg	
dibutyltin dilaurate 77-58-7	General population	inhalation	Long term exposure - systemic effects		0,005 mg/m3	
dibutyltin dilaurate 77-58-7	General population	oral	Long term exposure - systemic effects		0,003 mg/kg	

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

Filter type: A (EN 14387)

Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing. Protective eye equipment should conform to EN166.

Skin protection:

Wear suitable protective clothing.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state liquid

Delivery form Currently under determination

Colour yellow Odor None

Melting point Not applicable, Product is a liquid

Solidification temperature 29 °C (84.2 °F) Initial boiling point 205 °C (401 °F)

Flammability The product is not flammable.

Explosive limits Not applicable, The product is not flammable.

Flash point 191 °C (375.8 °F)

Auto-ignition temperature Not applicable, The product is not flammable.

Decomposition temperature 400 °C (752 °F);

pH Not applicable, Product is non-soluble (in water).

Viscosity (kinematic) 7,3 mm2/s

(20 °C (68 °F);)

Solubility (qualitative) Currently under determination

Partition coefficient: n-octanol/water Lipophilic (log pow 3-6, indication of bioaccumulation

potential)

Vapour pressure < 0,01 hPa Density 1,04 g/cm3

(20 °C (68 °F))

Relative vapour density: > 1

(20 °C)

Particle characteristics Not applicable Product is a liquid

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity

Reaction with strong acids. Reacts with strong oxidants.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Stable under normal conditions of storage and use.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

carbon oxides.

SECTION 11: Toxicological information

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

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
dibutyltin dilaurate 77-58-7	Acute toxicity estimate (ATE)	500 mg/kg		Expert judgement
dibutyltin dilaurate 77-58-7	LD50	500 - 2.000 mg/kg	rat	not specified

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Species	Method
CAS-No.	type		_	
dibutyltin dilaurate	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
77-58-7				

Acute inhalative toxicity:

No data available.

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Result	Exposure	Species	Method
CAS-No.		time		
dibutyltin dilaurate	not corrosive		Human,	OECD Guideline 431 (In Vitro Skin Corrosion:
77-58-7			EpiSkinTM	Reconstructed Human Epidermis (RHE) Test Method)
			(SM),	
			Reconstructed	
			Human	
			Epidermis (RHE)	
dibutyltin dilaurate	not irritating		Human,	other guideline:
77-58-7			EpiSkinTM	_
			(SM),	
			Reconstructed	
			Human	
			Epidermis (RHE)	
dibutyltin dilaurate	not corrosive		Corrositex	OECD Guideline 435 (In Vitro Membrane Barrier Test
77-58-7			Biobarrier	Method for Skin Corrosion)
			Membrane	
			(reconstituted	
			collagen matrix)	

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
dibutyltin dilaurate 77-58-7	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
dibutyltin dilaurate 77-58-7	Sensitizing	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
dibutyltin dilaurate 77-58-7	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
dibutyltin dilaurate 77-58-7	positive	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
dibutyltin dilaurate 77-58-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
dibutyltin dilaurate 77-58-7	positive	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

		aummsu auon	Exposure time		
dibutyltin dilaurate	negative	mammalian cell	with and without		OECD Guideline 476 (In vitro
77-58-7		gene mutation assay			Mammalian Cell Gene
					Mutation Test)
dibutyltin dilaurate	positive	in vitro mammalian	with and without		OECD Guideline 473 (In vitro
77-58-7		chromosome			Mammalian Chromosome
		aberration test			Aberration Test)
dibutyltin dilaurate	negative	bacterial reverse	with and without		OECD Guideline 471
77-58-7		mutation assay (e.g			(Bacterial Reverse Mutation
		Ames test)			Assay)
dibutyltin dilaurate	positive	oral: gavage		mouse	OECD Guideline 474
77-58-7					(Mammalian Erythrocyte
					Micronucleus Test)
Carcinogenicity					
No data available.					

Reproductive toxicity: No data available. STOT-single exposure: No data available.

STOT-repeated exposure::

No data available.

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information

General ecological information:

Do not empty into drains / surface water / ground water.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

GLG N	Value type	Value	Exposure time	Species	Method
	LC50	3,1 mg/l	96 h		OECD Guideline 203 (Fish,
77-58-7					Acute Toxicity Test)

Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
dibutyltin dilaurate 77-58-7	EC50	0,463 mg/l	48 h	1	OECD Guideline 202 (Daphnia sp. Acute
					Immobilisation Test)

Chronic toxicity to aquatic invertebrates

No data available.

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
dibutyltin dilaurate	IC50	> 3 mg/l	72 h	Scenedesmus subspicatus (new	OECD Guideline 201 (Alga,
77-58-7				name: Desmodesmus	Growth Inhibition Test)
				subspicatus)	

Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type	4			
dibutyltin dilaurate	EC50	> 1.000 mg/l	3 h	activated sludge of a	OECD Guideline 209
77-58-7				predominantly domestic sewage	(Activated Sludge,
					Respiration Inhibition Test)

12.2. Persistence and degradability

The product is not biodegradable.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
dibutyltin dilaurate	not readily biodegradable.	anaerobic	23 %	39 d	OECD Guideline 301 F (Ready
77-58-7					Biodegradability: Manometric
					Respirometry Test)

12.3. Bioaccumulative potential

No data available.

Hazardous substances CAS-No.	Bioconcentratio n factor (BCF)	Exposure time	Temperature	Species	Method
dibutyltin dilaurate	31 - 155			Cyprinus carpio	OECD Guideline 305
77-58-7					(Bioconcentration: Flow-through
					Fish Test)

12.4. Mobility in soil

Cured adhesives are immobile.

Hazardous substances	LogPow	Temperature	Method
CAS-No.			
dibutyltin dilaurate	4,44	20,8 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake
77-58-7			Flask Method)

12.5. Results of PBT and vPvB assessment

Hazardous substances CAS-No.	PBT / vPvB
dibutyltin dilaurate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
77-58-7	Bioaccumulative (vPvB) criteria.

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Dispose of in accordance with local and national regulations.

Collection and delivery to recycling enterprise or other registered elimination institution.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Waste code

08 04 09* waste adhesives and sealants containing organic solvents and other dangerous substances

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

SECTION 14: Transport information

14.1. UN number or ID number

ADR	2788
RID	2788
ADN	2788
IMDG	2788
IATA	2788

14.2. UN proper shipping name

ADR	ORGANOTIN COMPOUND, LIQUID, N.O.S. (Dibutyl tin dilaurate)
RID	ORGANOTIN COMPOUND, LIQUID, N.O.S. (Dibutyl tin dilaurate)
ADN	ORGANOTIN COMPOUND, LIQUID, N.O.S. (Dibutyl tin dilaurate)
IMDG	ORGANOTIN COMPOUND, LIQUID, N.O.S. (Dibutyl tin dilaurate)
IATA	Organotin compound, liquid, n.o.s. (Dibutyl tin dilaurate)

14.3. Transport hazard class(es)

ADR	6.1
RID	6.1
ADN	6.1
IMDG	6.1
IATA	6.1

14.4. Packing group

ADR	III
RID	III
ADN	III
IMDG	III
IATA	III

14.5. Environmental hazards

ADR	Environmentally Hazardous
RID	Environmentally Hazardous
ADN	Environmentally Hazardous
IMDC	Marina nallutant

IMDG Marine pollutant IATA not applicable

14.6. Special precautions for user

ADR	not applicable
	Tunnelcode: (E)
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):

Not applicable dibutyltin dilaurate CAS 77-58-7

Persistent organic pollutants (Regulation (EU) 2019/1021):

Not applicable

(2010/75/EC)

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text

of all abbreviations indicated by codes in this safety data sheet are as follows:

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H341 Suspected of causing genetic defects.

H360FD May damage fertility. May damage the unborn child.

H370 Causes damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

ED: Substance identified as having endocrine disrupting properties

EU OEL: Substance with a Union workplace exposure limit
EU EXPLD 1: Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2 Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC: Substance of very high concern (REACH Candidate List)

PBT: Substance fulfilling persistent, bioaccumulative and toxic criteria

PBT/vPvB: Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very

bioaccumulative criteria

vPvB: Substance fulfilling very persistent and very bioaccumulative criteria

Further information:

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