

acc. to Regulation (EC) No. 1907/2006 (REACH)

IRGANOX 3052

Version number: GHS 2.0 Revision: 2022-07-15 Replaces version of: 2020-07-13 (GHS 1)

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

1.1 Product identifier

Identification of the substance IRGANOX 3052

CAS number 61167-58-6 Article number A0119676

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

Relevant identified uses General use

1.3 Details of the supplier of the safety data sheet

Chemos GmbH & Co. KG Sonnenring 7 84032 Altdorf Germany

Telephone: +49 871-966346-0 Telefax: +49 871-966346-13 e-mail: chemos@chemos.de Website: http://www.chemos.de/

e-mail (competent person) chemos@chemos.de

1.4 Emergency telephone number

Emergency information service +49 89 1 92 40

Poison centre

Country	Name	Postal code/ city	Telephone	Telefax
United Kingdom	National Poison Information Centre Medical Toxicology Unit	SE14 5ER Lon- don	+44 171 635 91 91	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

This substance does not meet the criteria for classification.

2.2 Label elements

Labelling not required

2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

United Kingdom: en Page: 1 / 12



acc. to Regulation (EC) No. 1907/2006 (REACH)

IRGANOX 3052

Version number: GHS 2.0 Revision: 2022-07-15 Replaces version of: 2020-07-13 (GHS 1)

SECTION 3: Composition/information on ingredients

3.1 Substances

Name of substance IRGANOX 3052

Identifiers

CAS No 61167-58-6 EC No 262-634-6 Molecular formula C26H34O3 Molar mass 394.6 $^{\rm g}$ /mol

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Brush off loose particles from skin. Rinse skin with water/shower.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water, Foam, ABC-powder

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Deposited combustible dust has considerable explosion potential.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO2)

United Kingdom: en Page: 2 / 12



acc. to Regulation (EC) No. 1907/2006 (REACH)

IRGANOX 3052

Version number: GHS 2.0 Revision: 2022-07-15 Replaces version of: 2020-07-13 (GHS 1)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains, Take up mechanically

Advice on how to clean up a spill

Take up mechanically.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

- Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres

Removal of dust deposits.

- Ventilation requirements

Use local and general ventilation.

United Kingdom: en Page: 3 / 12



acc. to Regulation (EC) No. 1907/2006 (REACH)

IRGANOX 3052

Version number: GHS 2.0 Revision: 2022-07-15 Replaces version of: 2020-07-13 (GHS 1)

Specific end use(s)

7.3

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

Occupational exposure limit values (Workplace Exposure Limits)

Coun- try	Name of agent	CAS No	Identi- fier	TWA [mg/m³]	STEL [ppm]		Ceiling-C [mg/m³]		Source
GB	dust		WEL	10				i	EH40/ 2005
GB	dust		WEL	4				r	EH40/ 2005

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur

inhalable fraction respirable fraction

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute peri-

od (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours

time-weighted average (unless otherwise specified)

8.2 **Exposure controls**

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear protective gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

Particulate filter device (EN 143).

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

United Kingdom: en Page: 4 / 12



acc. to Regulation (EC) No. 1907/2006 (REACH)

IRGANOX 3052

Version number: GHS 2.0 Revision: 2022-07-15 Replaces version of: 2020-07-13 (GHS 1)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	solid
Colour	white
Odour	characteristic
Melting point/freezing point	133.5 °C at 1,013 hPa
Boiling point or initial boiling point and boiling range	not determined
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not determined
Flash point	215 °C at 1,018 hPa
Auto-ignition temperature	not determined
Decomposition temperature	188.8 °C (ECHA)
pH (value)	not applicable
Kinematic viscosity	not relevant

Solubility(ies)

Water solubility	0.123 ^{µg} / _l at 20 °C
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Partition coefficient

Partition coefficient n-octanol/water (log value)	7.25 (ECHA)
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Vapour pressure	0 Pa at 25 °C
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Density and/or relative density

Density	1.13 ^g / _{cm³}
Relative vapour density	information on this property is not available

Particle characteristics

Particle size	1,280 µm
i di dicie size	1,200 μπ

United Kingdom: en Page: 5 / 12



acc. to Regulation (EC) No. 1907/2006 (REACH)

IRGANOX 3052

Version number: GHS 2.0 Revision: 2022-07-15 Replaces version of: 2020-07-13 (GHS 1)

9.2 Other information

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant	
Other safety characteristics		
Solid content	100 %	

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

Hints to prevent fire or explosion

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification acc. to GHS

This substance does not meet the criteria for classification.

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful in contact with skin.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

United Kingdom: en Page: 6 / 12



acc. to Regulation (EC) No. 1907/2006 (REACH)

IRGANOX 3052

Version number: GHS 2.0 Revision: 2022-07-15 Replaces version of: 2020-07-13 (GHS 1)

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

Process	of	degradability
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Process	Degradation rate	Time
oxygen depletion	0 %	14 d

12.3 Bioaccumulative potential

The substance fulfils the very bioaccumulative criterion.

n-octanol/water (log KOW)	7.25 (ECHA)
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12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

Information on this property is not available.

12.7 Other adverse effects

Data are not available.

United Kingdom: en Page: 7 / 12



acc. to Regulation (EC) No. 1907/2006 (REACH)

IRGANOX 3052

Version number: GHS 2.0 Revision: 2022-07-15 Replaces version of: 2020-07-13 (GHS 1)

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number or ID number not subject to transport regulations

14.2 UN proper shipping name not relevant

14.3 Transport hazard class(es) none

14.4 Packing group not assigned

14.5 Environmental hazards non-environmentally hazardous acc. to the dan-

gerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

International Maritime Dangerous Goods Code (IMDG) - Additional information Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional informationNot subject to ICAO-IATA.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Deco-Paint Directive

VOC content	0 %
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Industrial Emissions Directive (IED)

VOC content	0 %
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United Kingdom: en Page: 8 / 12



acc. to Regulation (EC) No. 1907/2006 (REACH)

IRGANOX 3052

Version number: GHS 2.0 Revision: 2022-07-15 Replaces version of: 2020-07-13 (GHS 1)

National inventories

Country	Inventory	Status
AU	AIIC	substance is listed
CA	NDSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
JP	CSCL-ENCS	substance is listed
JP	ISHA-ENCS	substance is listed
KR	KECI	substance is listed
PH	PICCS	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed

Legend

AIIC CSCL-ENCS

Australian Inventory of Industrial Chemicals
List of Existing and New Chemical Substances (CSCL-ENCS)
EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China
Inventory of Existing and New Chemical Substances (ISHA-ENCS)
Korea Existing Chemicals Inventory
Non-domestic Substances List (NDSL)
Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH registered substances
Taiwan Chemical Substances Inventory ECSI IECSC ISHA-ENCS

KECI

NDSL

PICCS

REACH Reg. Taiwan Chemical Substance Inventory TCSI

TSCA Toxic Substance Control Act

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-rel- evant
1.1	Identification of the substance: 2-(1,1-dimethylethyl)-6-[[3-(1,1-dimethylethyl)-2-hydroxy-5-methylphenyl]methyl]-4-methylphenyl acrylate	Identification of the substance: IRGANOX 3052	yes
1.1	Registration number (REACH): this information is not available		yes
1.1	Alternative name(s): 2-tert-butyl-6-[(3-tert-butyl-2-hydroxy-5-methyl- phenyl)methyl]-4-methylphenyl prop-2-enoate		yes
2.1	Classification according to Regulation (EC) No 1272/2008 (CLP): This substance does not meet the criteria for clas- sification in accordance with Regulation No 1272/ 2008/EC.	Classification acc. to GHS: This substance does not meet the criteria for classification.	yes

United Kingdom: en Page: 9 / 12



acc. to Regulation (EC) No. 1907/2006 (REACH)

IRGANOX 3052

Revision: 2022-07-15

Version number: GHS 2.0 Replaces version of: 2020-07-13 (GHS 1)

> Section Safety-rel-Former entry (text/value) Actual entry (text/value) evant 3.1 Name of substance: Name of substance: yes 2-(1,1-dimethylethyl)-6-[[3-(1,1-dimethylethyl)-2-**IRGANOX 3052** hydroxy-5-methylphenyl]methyl]-4-methylphenyl acrylate 9.1 Appearance yes 9.1 Other safety parameters yes Lower and upper explosion limit: not determined 9.1 ves 9.1 Evaporation rate: yes not determined Explosion limits of dust clouds: 9.1 yes not determined Kinematic viscosity: 9.1 yes not relevant 9.1 Density and/or relative density yes 9.1 Vapour density: yes this information is not available 9.1 Viscosity: yes not relevant (solid matter) 9.1 Explosive properties: yes none 9.1 Oxidising properties: yes none 9.1 Relative vapour density: yes information on this property is not available Particle characteristics 9.1 yes 9.2 Information with regard to physical hazard yes classes: hazard classes acc. to GHS (physical hazards): not relevant 9.2 Other safety characteristics yes 11.1 Classification according to GHS (1272/2008/EC, Classification acc. to GHS: yes This substance does not meet the criteria for clas-CLP): This substance does not meet the criteria for classification. sification in accordance with Regulation No 1272/ 2008/EC. 11.2 Information on other hazards: yes There is no additional information. 12.6 Endocrine disrupting properties: Other adverse effects: yes Data are not available. Information on this property is not available. Packing group: not assigned 14.4 Packing group: yes not assigned to a packing group 14.7 Transport of dangerous goods by road, rail and yes inland waterway (ADR/RID/ADN): Not subject to ADR, RID and ADN. 15.1 National inventories: yes change in the listing (table)

United Kingdom: en Page: 10 / 12



acc. to Regulation (EC) No. 1907/2006 (REACH)

IRGANOX 3052

Version number: GHS 2.0 Revision: 2022-07-15 Replaces version of: 2020-07-13 (GHS 1)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-rel- evant
16		Abbreviations and acronyms: change in the listing (table)	yes
16	Key literature references and sources for data: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).	of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Danger- ous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport	

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DGR)
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

United Kingdom: en Page: 11 / 12



acc. to Regulation (EC) No. 1907/2006 (REACH)

IRGANOX 3052

Version number: GHS 2.0 Revision: 2022-07-15 Replaces version of: 2020-07-13 (GHS 1)

Abbr.	Descriptions of used abbreviations
WEL	Workplace exposure limit

Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

United Kingdom: en Page: 12 / 12