

Printing date 16.02.2025

Version no: 3

Revision 16.02.2025

Trade name: Restrainer Neutraltone

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name: Restrainer Neutraltone
UFI: 0110-801T-800H-SXN1

1.2 Application of the mixture: Additive to developers to prevent fog**1.3 Details of the supplier of the safety data sheet**

Manufacturer/Supplier:

Moersch Photochemie
Am Heideberg 48
50354 Hürth
Tel.: + 49(0)2233-943137
Fax: + 49(0)2233-943138
E-Mail: wolfgang@moersch-photochemie.de
www.moersch-photochemie.de

1.4 Emergency telephone number:

Poison Information Centre Berlin (Germany): +49 (0) 30 - 30686 790

SECTION 2: Hazards identification**2.1 Classification of the mixture**

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

Section	Hazard Class	Category	Hazard Class and Category	Hazard Statement
3.3	Serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.10	Acute Toxicity (oral)	4	Acute Tox. 4	H302
4.1C	Hazardous to the aquatic environment – chronic hazard	2	Aquatic Chronic 2	H411

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Signal Word Warning

GHS07, GHS09



Printing date 16.02.2025

Version no: 3

Revision 16.02.2025

Trade name: Restrainer Neutraltone

Hazard statements

H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P264 Wash skin thoroughly after handling
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.
P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
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.

Reduced Labeling (<= 125 ml)



GHS07

Signal Word Warning

Hazard Statements none

Precautionary statements none

2.3 Other hazards

Results of PBT and vPvB 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.

SECTION 3: Composition/information on ingredients

Identifier	Components	Classification	% w/w
CAS-Nr. 95-14-7 EG-Nr. 202-394-1	Benzotriazole	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)	<3%

Printing date 16.02.2025

Version no: 3

Revision 16.02.2025

Trade name: Restrainer Neutraltone

CAS-Nr. 7647-15-6 EG-Nr: 231-599-9 REACH Reg.-Nr. 01-21-9490106-41-xxxx	Sodium bromide		10,00 %

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

Trade name: Restrainer Neutraltone

5.1 Extinguishing media

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 In case of fire may be liberated:

Hydrogen bromide

Carbon oxides

Nitrogen oxides (NO_x)

Combustible.

Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

6.2 Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Printing date 16.02.2025

Version no: 3

Revision 16.02.2025

Trade name: Restrainer Neutraltone

Tightly closed. Dry.

Store a. way from foodstuffs.

Store away from oxidising agents.

Store under lock and key and out of the reach of children.

Recommended storage temperature: 10-25 °C

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

8.2 Exposure controls

Personal protective equipmen

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min

Material tested:KCL 741 Dermatril® L

Body Protection

protective clothing

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

General information	
Form:	fluid
Colour:	colourless
Odour:	odourless

Printing date 16.02.2025

Version no: 3

Revision 16.02.2025

Trade name: Restrainer Neutraltone

Change in condition	
Melting point:	Not determined
Melting range:	not determined
Flash point	Not applicable
Flammability	Not applicable
Danger of explosion	Not applicable
Vapour pressure at 20° C	Not determined
Density at 20° C	1.05 g/cm ³
Solubility in/Miscibility with water	Fully miscible
pH-Value at 20° C	8.0
Solvent content	
Organic solvents:	0 %
Water:	>85 %
VOC (EU):	0 %

SECTION 10: Stability and reactivity

Reactivity: No further relevant information available

Thermal decomposition/conditions to be avoided:

No decomposition if used as directed.

Substances to avoid:

Strong acids and oxidising agents.

Hazardous reactions:

No hazardous reactions known.

Hazardous decomposition products:

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

Classification acc. to GHS of the United Nations (1272/2008/EC, CLP)

Acute toxicity: Harmful if swallowed

Exposure route	Endpoint	Value	Species	Source
oral	LD50	560 mg/kg	rat	ECHA
dermal	LD50	>1000mg/kg	rabbit	ECHA

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

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.

Trade name: Restrainer Neutraltone

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.

Symptoms related to the physical, chemical and toxicological characteristics

- If swallowed
diarrhoea, vomiting, nausea, spasms
- If in eyes
causes serious eye irritation
- If inhaled
Data are not available
- If on skin
Data are not available
- Other information
none

SECTION 12: Ecological information**12.1 Toxicity**

Acute aquatic toxicity

Toxic to aquatic organisms, with long lasting effects.

Endpoint	Value	Species	Source	Exposure time
LC50	180 mg/l	fish	OECD	96h
EC50	8,58 mg/l	water flea	OECD	48h
ErC50	75 mg/l	algae	OECD	72h

12.2 Persistence and degradability: Not readily biodegradable.

12.3 Bioaccumulative potential: Does not significantly accumulate in organisms.

12.4 Mobility in soil: Data are not available.

Trade name: Restrainer Neutraltone

12.5 Results of PBT and vPvB 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 Endocrine disrupting properties

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.

12.7 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Properties of waste which render it hazardous

HP 4 irritant - skin irritation and eye damage

13.3 Remarks

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

SECTION 14: Transport information

14.1 UN-Number ADR, ADN, IMDG, IATA	is not subject to transport regulations
14.2 UN proper shipping name ADR, IMDG, IATA	no dangerous good

Printing date 16.02.2025

Version no: 3

Revision 16.02.2025

Trade name: Restrainer Neutraltone

14.3 Transport hazard classes ADR, ADN, IMDG, IATA	none
14.4 Packing group ADR, ADN, IMDG, IATA	not assigned
14.5 Environmental hazards Marine pollutant:	not hazardous to the environment according to dangerous goods regulations
14.6 Special precautions for user	no additional information is available
14.7 Transport in bulk according to annex II of Marpol and the IBC code	not transported in bulk
14.8 Information according to the individual UN model regulations Transport of dangerous goods by road, rail or inland waterway (ADR/RID/ADN) - Additional information Not subject to ADR, RID and ADN regulations. International Maritime Dangerous Goods Code (IMDG) - Additional information Not subject to IMDG regulations. International Civil Aviation Organisation (ICAO-IATA/DGR) - Additional information Not subject to ICAO-IATA regulations.	

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the
substance or mixture**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Restrictions according to REACH, Annex XVII

not listed

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

not listed

Seveso Directive

Printing date 16.02.2025

Version no: 3

Revision 16.02.2025

Trade name: Restrainer Neutraltone

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

E2 Environmental hazards

Deco-Paint Directive

VOC-content 0 %

Industrial Emissions Directive (IED)

VOC-content 0 %

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

Water Framework Directive (WFD)**List of pollutants**

not listed

Regulation on the marketing and use of explosives precursors

not listed

Regulation on drug precursors

not listed

Regulation on substances that deplete the ozone layer (ODS)

not listed

Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

Regulation on persistent organic pollutants (POP)

not listed

Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant H-phrases

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- H302 Harmful if swallowed.
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Abbreviations and acronyms:

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative