Safety Data Sheet

Dy in water

Version: V2.0.0.1

Report No.: BWB2651-2016-MSDS-US

Creation Date: 2025/10/13

Revision Date: -



*Prepared according to American OSHA HCS-2024 (29 CFR 1910.1200)

1 Identification

| Product identifier

Product Name	Dy in water
Cat No.	BWB2651-2016
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

Recommended use of the product and restrictions on use

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

Details of the supplier of the Safety Data Sheet

Name of the company	Weiyel Inc
Address of the company	Hedian Light Industrial Park, Chengguan Town, Shangcheng County, Xinyang City, Henan Province, China
Post code	465350
Telephone number	010-58103678
Fax number	010-84840368
E-mail address	info@weiyel.com

| Emergency phone number

Emergency phone number	010-59103679
Emergency bnone number	010-20103070

2 Hazard(s) identification

Hazard classification according to 29 CFR 1910.1200

Skin Corrosion/Irritation	Category 2
Serious eye damage/irritation	Category 2
Acute Toxicity - Inhalation	Category 2

Label elements

Hazard pictograms	
Signal word	Danger

Hazard	state	ments
--------	-------	-------

•	
H315	Causes skin irritation
H319	Causes serious eye irritation
H330	Fatal if inhaled

| Precautionary statements

Prevention

P260	Do not breathe gas/mist/vapour/spray.
P264	Wash hands and other parts of the body (if related) thoroughly after handling.
P271	Use only outdoors or with adequate ventilation.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P284	In case of inadequate ventilation wear respiratory protection.
A Decrees	

Response

P320	Specific treatment is urgent (see related instructions on the label).
P321	Specific treatment (see related instructions on the label).
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P362+P364	Take off contaminated clothing and wash it before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
_	

Storage

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
▲ Dianonal	

Disposal

P501	Dispose of contents/container in accordance with local/regional/national/
	international regulations.

Other hazards

Not applicable.

| Hazard description

Physical and chemical hazards

	No information available
 Health hazards 	
Inhaled	Inhalation of vapours or aerosols (mists, fumes), generated by the product during the course of normal handling, may produce severely toxic effects; these may be fatal.
Ingestion	Accidental ingestion of the product may be harmful to the health of the individual.
Skin Contact	The product can cause skin irritation following direct contact with the skin.
Eye	This product may cause serious eye irritation. Severe inflammation may be expected with pain following direct contact with the eye.
◆ Environmental hazards	
,	

Please refer to 12th chapter of SDS.

3 Composition/information on ingredients

Dy in water Version: V2.0.0.1 Revision Date:

Substance/mixture

Mixture

Component	CAS No.	EC No.	Concentration (wt, %)
Water	7732-18-5	231-791-2	97.9995
Nitric acid	7697-37-2	231-714-2	2
Dysprosium	7429-91-6	231-073-9	0.0005

First-aid measures

Description of first aid measures

•	
General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the
	doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of soap and water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most important symptoms/effects, acute and delayed

1 Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Indication of any immediate medical attention and special treatment needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.
- Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used.

Specific hazards arising from the substance or mixture

- 1 Development of hazardous combustion gases or vapor possible in the event of fire.
- 2 May expansion or decompose explosively when heated or involved in fire.

Special protective equipment and precautions for fire-fighters

- As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

Dy in water Version: V2.0.0.1 Revision Date:

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

- 1 Use personal protective equipment, do not breathe gas/mist/vapour/spray.
- Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
- 3 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

- 1 Cut off the source of the leak as much as possible.
- 2 Keep leaks in a ventilated place.
- Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 4 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
- 5 Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.

7 Handling and storage

Precautions for safe handling

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.
- 4 Keep away from heat/sparks/open flames/ hot surfaces.

Conditions for safe storage, including any incompatibilities

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

8 Exposure controls/personal protection

| Control parameters

Occupational exposure limit values

Component	Country/Region	Limit value	- Eight hours	Limit value - Short term			
		ppm	mg/m³	ppm	mg/m³		
Nitric acid	Japan - JSOH(2024–202 5)	2	5.2	-	-		
	Permissible exposure standards for workers in the workplace	2	5.2	4	10.4		

Australia	2	5.2	4	10
Canada - Ontario	2	-	4	-
European Union	-	-	1	2.6
New Zealand	2	5.2	4	10

| Engineering controls

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.
- 4 Set up emergency exit and necessary risk-elimination area.

| Personal protection equipment

General requirement	
Eye protection	Must wear appropriate safety goggles.
Hand protection	Must wear appropriate chemical protective gloves.
Respiratory protection	Must wear appropriate personal dust proof gas mask.
Skin and body protection	Must wear appropriate chemical protective clothing and chemical resistant shoes.

9 Physical and chemical properties and safety characteristics

| Physical and chemical properties

Physical and chemical properties								
Appearance (physical state, color, etc.)	Clear, colorless liquid							
Odor	No information available							
Odor threshold	No information available							
рН	7.00 (20°C,Water)							
Melting point/freezing point(°C)	0 (Water)							
Initial boiling point and boiling range(°C)	100 (Water)							
Flash point(Closed cup,°C)	Not applicable							
Evaporation rate	Not applicable							
Flammability	No information available							
Upper/lower explosive limits[%(v/v)]	Upper limit: No information available; Lower limit: No information available							
Vapor pressure	2.33kPa (20°C,Water)							
Vapor density(Air = 1)	> 1 (Water)							
Relative density(Water=1)	1 (3.9°C,Water)							
Solubility	No information available							
n-octanol/water partition coefficient	No information available							
Auto-ignition temperature(°C)	No information available							
Decomposition temperature(°C)	No information available							
Kinematic viscosity	Not applicable							

Dy in water Version: V2.0.0.1 Revision Date: -

10 Stability and reactivity

Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other
	chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous	In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and
reactions	release hydrogen.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal
	oxide, acyl halide and metal phosphide.
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products
products	should not be produced.

Toxicological information

Acute toxicity

Acute toxicity | No information available

| Carcinogenicity

Component	List of carcinogens by	Report on Carcinogens	OSHA Carcinogen List		
	the IARC Monographs	by NTP			
Water	Not Listed	Not Listed	Not Listed		
Nitric acid	Not Listed	Not Listed	Not Listed		
Dysprosium	Not Listed	Not Listed	Not Listed		

Others

Dy in water							
Skin corrosion/irritation	Causes skin irritation(Category 2)						
Serious eye damage/irritation	Causes serious eye irritation(Category 2)						
Skin sensitization	Based on available data, the classification criteria are not met						
Respiratory sensitization	Based on available data, the classification criteria are not met						
Reproductive toxicity	Based on available data, the classification criteria are not met						
STOT-repeated exposure	Based on available data, the classification criteria are not met						
Aspiration hazard	Based on available data, the classification criteria are not met						
Germ cell mutagenicity	Based on available data, the classification criteria are not met						

12 Ecological information

| Acute aquatic toxicity

Acute aquatic toxicity No information available

| Chronic aquatic toxicity

Chronic aquatic toxicity No information available

Persistence and degradability

Persistence and degradability No information available

◆ Transport in bulk in accordance with the IGC Code

Not Available

Others

Precautions for transport

Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.

15 Regulatory information

International chemical inventory

	Component	Α	В	С	D	E	F	G	Н	I	J	K	L	M	
--	-----------	---	---	---	---	---	---	---	---	---	---	---	---	---	--

Water	√	√	√	V	√	√	√	√	√	√	V	V	√
Nitric acid	√	√	√	V	√	√	√	√	√	√	V	V	√
Dysprosium	√	√	√	×	×	×	×	×	×	×	×	V	√

- [A] China Inventory of Existing Chemical Substances(IECSC)
- [B] European Inventory of Existing Commercial Chemical Substances(EC inventory)
- [C] United States Toxic Substances Control Act Inventory(TSCA)
- [D] Canadian Domestic Substances List(DSL)
- [E] New Zealand Inventory of Chemicals(NZIoC)
- [F] Philippines Inventory of Chemicals and Chemical Substances(PICCS)
- [G] Korea Existing Chemicals Inventory(KECL)
- [H] Australian. Inventory of Industrial Chemical (AIICS)
- [1] Japan Inventory of Existing & New Chemical Substances(ENCS)
- [J] Thailand Existing Chemicals Inventory(TECI)
- [K] Mexico National Inventory of Chemical Substances (INSQ)
- [L] Russia Inventory of Existing Substances (DRAFT)
- [M] Inventory of Existing Chemical Substances in Taiwan, China (TCSI)

List of Chemical Substances under International Conventions

Component	Α	В	С
Water	×	×	×
Nitric acid	×	×	×
Dysprosium	×	×	×

- [A] The Montreal Protocol on Substances that Deplete the Ozone Layer
- [B] Stockholm Convention on Persistent Organic Pollutants (POPs)
- [C] Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade

US chemical inventory

Component	Α	В	С	D	E	F	G	Н
Water	×	×	×	×	×	×	×	×
Nitric acid	×	√	√	√	V	V	√	×
Dysprosium	×	×	×	×	×	×	×	×

- [A] US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants
- [B] US SARA 302- Extremely Hazardous Substance List
- [C] US CERCLA- Hazardous Substances List
- [D] US Massachusetts Right-to-Know Substance List
- [E] US New Jersey Right to Know Hazardous Substance List
- [F] US Pennsylvania Right to Know Hazardous Substance List
- [G] US New York City Right-to-Know Hazardous Substance List
- [H] US California Proposition 65 List

Note:

- " $\sqrt{}$ " Indicates that the substance included in the regulations.
- "x" No data or not included in the regulations.

16 Other information

Information on revision

Creation Date	2025/10/13
Revision Date	-

Reason for revision

Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
- [2] IARC, website: http://www.iarc.fr/.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportal/.
- [4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
- [5] NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.
- [6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
- [7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.
- [8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG- CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC ₅₀	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD ₅₀	Lethal Dose 50%	NTP	National Toxicology Program
EC ₅₀	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC_X	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
Pow	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor	HCS	Hazard Communication Standard

Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2024. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.