

VICTORY JOINT STOCK COMPANY

Add.: Lot F21, Phung Hung Str., Dong Pho Moi Industrial Zone,
Van Hoa Commune, Lao Cai City, Lao Cai province, Vietnam
Tel: +84-214-3787 5857 Fax: +84-214-3787 5263

PHOSPHORUS, YELLOW

QD/PATHC/2

SAFETY DATA SHEET

VICTORY JOINT STOCK COMPANY

PHOSPHORUS, YELLOW

MSDS No.: QD/PATHC/2

SECTION 1: Identification

1.1 Product identifier

Product name : PHOSPHORUS, YELLOW, UNDER WATER
Hazardous ingredients : white phosphorus [12185-10-3]
Substance Name : white phosphorus

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

Suitable uses : Intermediate for industrial use under strictly controlled conditions.

1.3 Details of the supplier of the safety data sheet

Supplier : Victory Joint Stock Company.
Lot F21, Phung Hung Str., Dong Pho Moi Industrial Zone,
Van Hoa Commune, Lao Cai City, Lao Cai Province, Vietnam
Telephone: +84 214 3787 5857
E-mail: haivicceo@victoryjsc.com

1.4 Emergency telephone Number : +84 972 437 555 (Mr. Hai)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification : Pyr. Sol. 1, H250 Acute Tox. 1, H300
Acute Tox. 2, H330
Skin Corr. 1A, H314
Aquatic Acute 1, H400

Classification according to Directive 67/548/EEC [DSD]

Classification : F; R17 T+; R26/28 C; R35 N; R50

Physical/chemical hazards : Spontaneously flammable in air.
Human health hazards : Very toxic by inhalation and if swallowed. Causes severe burns.
Environmental hazards : Very toxic to aquatic organisms.

2.2 Label elements

Hazard pictograms :



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Signal word : Danger
white phosphorus [12185-10-3]
Hazard statements : H250 - Catches fire spontaneously if exposed to air.
H300 + H330 - Fatal if swallowed or if inhaled.
H314 - Causes severe skin burns and eye damage.
H400 - Very toxic to aquatic life.
Additional warning phrases : Not applicable.

Precautionary statements

Prevention : In case of insufficient ventilation, wear suitable respiratory equipment. Avoid release to the environment.
Response : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
: IF SWALLOWED: Seek immediate medical attention/advice.
: IF INHALED: Get immediate medical attention.
Storage : Store contents under nitrogen.
Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3 Other hazards

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

Product definition (REACH) : Mono-constituent substance

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
white phosphorus	CAS 7723-14-0	>99	F; R17 T+; R26/28 C; R35 N; R50	Pyr. Sol. 1, H250 Acute Tox. 1, H300 Acute Tox. 2, H330 Skin Corr. 1A, H314 Aquatic Acute 1, H400	[A]
			See Section 16 for the full text of the R-phrases declared above.	See Section 16 for the full text of the H statements declared above.	

Occupational exposure limits, if available, are listed in Section 8.

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Type

- [A] Constituent
- [B] Impurity
- [C] Stabilising additive

SECTION 4: First aid measures

4.1 Description of first aid measures

- | | |
|---------------------|--|
| Inhalation | : Get medical attention immediately. Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Ingestion | : Get medical attention immediately. Wash out mouth with water. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Skin contact | : Get medical attention immediately. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| Eye contact | : Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. |

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms. 4.3

Indication of any immediate medical attention and special treatment needed

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Notes to physician : Symptoms of poisoning may not appear for several hours.
Keep under medical supervision for at least 48 hours.

See Section 11 for more detailed information on health effects and symptoms.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use dry chemical powder.

Unsuitable extinguishing media : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Spontaneously flammable in air. May re-ignite itself after fire is extinguished. Runoff to sewer may create fire or explosion hazard.

Hazardous combustion products : Decomposition products may include the following materials:
phosphorus oxides

5.3 Advice for firefighters

Special precautions for fire-fighters : Promptly isolate the scene by removing all persons from the Vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Provide adequate ventilation. Put on appropriate personal protective equipment (see Section 8).

6.2 Environmental : Avoid dispersal of spilt material and runoff and contact with soil,

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precautions

waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Very toxic to aquatic organisms.

6.3 Methods and materials for containment and cleaning up

Small spill

: Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

Large spill

: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

6.4 Reference to other sections

: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not ingest. Do not allow contact with air. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.

Use non-sparking tools. Empty containers retain product residue and can be hazardous.

7.2 Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink.

Eliminate all ignition sources. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

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Keep under inert atmosphere. Keep wetted with Water Segregate from oxidising materials.

Seveso II Directive - Reporting thresholds (in tonnes)

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
H1: Acute toxicity 1	5	20
P7: Pyrophoric liquids and solids	50	200
E1: Hazardous to the aquatic environment - Acute 1 or Chronic 1	100	200
C1: Very toxic	5	20
C7a: Highly flammable (R17 or FP < 55 with particular processing conditions)	50	200
C9i: Very toxic for the environment	100	200

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

Remarks : Explosion protection required. Keep under nitrogen or argon.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure limit values : Not available.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the documents for methods for the determination of hazardous substances will also be required.

8.2 Exposure controls

Risk management measures

Occupational exposure controls

Technical measures : Use only with adequate ventilation. Engineering controls may be required to control the primary or secondary risks associated with

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this product. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Use explosion-proof ventilation equipment. The substance shall be rigorously contained by technical means during its whole lifecycle including manufacture, purification, cleaning and maintenance of equipment, sampling, analysis, loading and unloading of equipment or vessels, waste disposal or purification and storage. Procedural and control technologies shall be used that minimise emission and any resulting exposure. In cases of accident and where waste is generated, procedural and/or control technologies shall be used to minimise emissions and the resulting exposure during purification or cleaning and maintenance procedures.

- Organisational measures** : Only properly trained and authorised personnel shall handle the substance. In the case of cleaning and maintenance works, special procedures such as purging and washing shall be applied before the system is opened and entered.

Personal protection measures

- Respiratory protection** : If exposure cannot be ruled out, e.g. during product transfer, sampling or maintenance, a well-fitting respiratory mask conforming to standards or well-fitting respiratory device conforming to standards must be worn. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: Full mask with type ABEK-P2 filter. Wear breathing apparatus with separate air supply (compressed air respirator, tube apparatus) at higher concentrations.

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if product contact cannot be excluded. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations. Recommended: (< 1 hour) Rubber gloves.

- Eye protection** : Safety eyewear complying with an approved standard should be used to avoid exposure to liquid splashes, mists, gases or dusts. Recommended: Tightly fitting safety goggles. / face shield

- Skin protection** : Wear protective clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Wear protective clothing.

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Environmental exposure controls

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Technical measures : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, special waste water treatment, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General information

Appearance

Physical state : Solid. [Waxy solid.]
Color : white to brownish
Odor : Characteristic.

Important health, safety and environmental information

Boiling point : 280 °C (1013 hPa) :
Melting point : 44,1°C (111,4°F)
Vapor pressure : 0,24 hPa (44°C)
: 1 hPa (76°C)
Density : 1,83 kg/L (20°C)
Solubility : Insoluble in the following materials: cold water
Viscosity : Dynamic: 1,7 mPa·s
Flammability : Spontaneously flammable in air
Auto-Ignition point : 30°C
Decomposition temperature : Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability : The product is stable.
10.3 Possibility of hazardous reactions : Hazardous reactions or instability may occur under certain conditions storage or use.
Conditions may include the following: contact with air
Reactions may include the following: spontaneous flammability
10.4 Conditions to avoid : Materials to avoid : alkalis, oxygen
Hazardous decomposition products : phosphorus oxides ,
Phosphine
10.5 Incompatible materials : Reactive or incompatible with the following materials: air
10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Potential acute health effects

Inhalation : Fatal if inhaled. May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.

Ingestion : Fatal if swallowed. May cause burns to mouth, throat and stomach.

Skin contact : Causes severe burns.

Eye contact : Causes serious eye damage.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	Test
white phosphorus	LD50 Oral	- Rat - Male, 3,03 to 3,76 Female	- 3,76 mg/kg		OECD 401 Acute Oral Toxicity

Potential chronic health effects

Mutagenicity

Product/ingredient name	Test	Experiment	Result
white phosphorus	OECD 471 Bacterial Reverse Mutation Test , with metabolic activation and without metabolic activation	Experiment: In vitro Subject: Bacteria	Negative

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Test	Result	Species	Exposure
white phosphorus	-	Acute LC50 0,0144 mg/l Marine water	Fish - Gadus morhua	48 hours
	-	Acute LC50 0,0023 mg/l Marine water	Fish - Salmo salar	96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
white phosphorus	-	22	low

12.4 Mobility in soil

Soil/water partition : Not available.

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coefficient (K_{oc})

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects

Other adverse effects : Not available.

Bioaccumulative potential

Product/ingredient name

LogP_{ow}

BCF

Potential

AOX

: Not available.

SECTION 13: Disposal considerations

13.1 Waste treatment

methods

Product

Methods of disposal

: Examine possibilities for re-utilisation. Product residues and uncleaned empty containers should be packaged, sealed, labelled, and disposed of or recycled according to relevant national and local regulations. Where large quantities are concerned, consult the supplier. When uncleaned empty containers are passed on, the recipient must be warned of any possible hazard that may be caused by residues. For disposal within the EC, the appropriate code according to the European Waste List (EWL) should be used. It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the European Waste List (EWL).

Hazardous waste

: The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1381	UN1381	UN1381	-
14.2 UN proper shipping name	PHOSPHORUS, YELLOW, UNDER WATER	PHOSPHORUS, YELLOW, UNDER WATER	PHOSPHORUS, YELLOW, UNDER WATER	-

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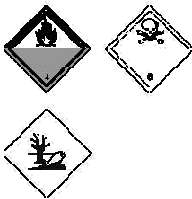
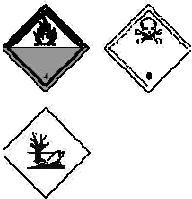
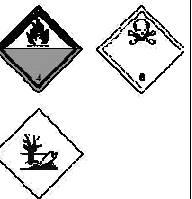
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14.3 Transport hazard class(es)/Marks	4.2 (6.1) 	4.2 (6.1) 	4.2 (6.1) 	-
14.4 Packing group	I	I	I	-
14.5 Environmental hazards	Yes.	Yes.	Yes	No
14.6 Special precautions for user/Additional information	<u>Hazard identification number</u> 46	<u>Hazard identification number</u> 46	<u>Emergency schedules (EmS)</u> _F-A_, S-J	Forbidden

14.7 Transport in bulk according to Annex : Not available.

II of MARPOL 73/78 and the IBC

Code Hazard notes:

Spontaneously combustible.

Toxic.

Corrosive.

Environmentally hazardous substance.

Keep separated from foodstuffs.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - : Not applicable.

Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

Seveso II Directive

This product is controlled under the Seveso II Directive.

Danger criteria

Category

H1: Acute toxicity 1

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P7: Pyrophoric liquids and solids
E1: Hazardous to the aquatic environment - Acute 1 or Chronic 1
C1: Very toxic
C7a: Highly flammable (R17 or FP < 55 with particular processing conditions)
C9i: Very toxic for the environment

15.2 Chemical Safety Assessment

: This product contains substances for which Chemical Safety
Assessments are still required.

SECTION 16: Other information

Abbreviations and acronyms

- : ATE = Acute Toxicity Estimate
- : CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- : DNEL = Derived No Effect Level
- : EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic
- : PNEC = Predicted No Effect Concentration
- : vPvB = Very Persistent and Very Bioaccumulative

Full text of abbreviated H statements	: H250	Catches fire spontaneously if exposed to air.
	H300	Fatal if swallowed.
	H314	Causes severe skin burns and eye damage.
	H330	Fatal if inhaled.
	H400	Very toxic to aquatic life.

Full text of R-phrases referred to in sections 2 and 3

: R17- Spontaneously flammable in air.
R26/28- Very toxic by inhalation and if swallowed.
R35- Causes severe burns.
R50- Very toxic to aquatic organisms.

Remarks : The Safety Data Sheet is valid for: Internal use.

History

Date of issue	: 2014-06-25
Date of previous issue	: 2011-07-24
Version	: 2

Notice to reader

Note to readers: Information in this chemical safety sheet is compiled on the basis of valid and latest knowledge of hazardous chemicals and must be used to take preventive measures against risks and accidents. The dangerous chemical in this sheet may have other dangers depending on how it is used and handled. The given details do not imply any guarantee concerning the composition, properties or performance.