

In accordance with Regulation (EC) 1907/2006 (REACH), Annex II-Europe

### **1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

1.1 Product identifier:				
Substance name:		CHINOX <sup>®</sup> 168		
Other name:		CN 168		
<b>REACH Registration No.:</b>		Not available		
Recommended use of the chemical		Mixture of acrylates for the coatings industry		
and restrictions on use	):	Industrial;		
1.2 Manufacturer or supplier information				
Company name: Double Bond Chemical Ind. Co., Ltd.				
Address:		4F, 959, JUNGJENG RD. JUNGHE DISTRICT, NEW TAIPEI CITY, TAIWAN, R.O.C		
Emergency contact person: Shari Huang				
Emergency phone/ fax	number:	+886-2-8228-1168/ +886-2-8228-1818		
Emergency contact En	nail:	techdata@dbc.com.tw		
2. HAZARDS IDENTI	FICATION			
2.1 Classification of the	e substance or m	ixture:		
2.1.1 Classification according to Regulation (EC) No. 1272/2008 [CLP]				
Not classified as hazard substance				
2.1.2 Additional information				
No other information				
2.2 Label elements:				
Symbols: No symbol Signal word: No Signal word				
Hazard substance: Not classified as hazard substance.				
Hazard statement: No I	Hazard statements			
Precautionary stateme	nts: No precaution	ary statements.		
2.3 Other hazards:				
None to our knowledge.				
3. COMPOSITION/INI	FORMATION ON	INGREDIENTS	3	
3.1 Information about mixture:				
Chemical name	CAS No.	EC No.	Weight % content	Classification according to Regulation (EC) No 1272/2008
Tris(2,4-ditert-butylphe nyl) phosphite	31570-04-4	250-709-6	≧99%	Not classified as hazard substance

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4. FIRST-AID MEASURES	
Eye contact:	Immediately wash eyes with plenty of running water for at least 15 minutes minimum. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. Occasionally lift the upper and lower eyelids. Seek medical advice if irritation develops and persists.
Skin contact:	Wash affected skin area with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. Seek medical advice if irritation develops and persists.
Ingestion:	Seek medical advice if the victim feels unwell. Wash out mouth with plenty of water and give 2-4 cupful of water or milk to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting.
Inhalation:	Remove the victim from exposure into fresh air if adverse effects (e.g. dizziness, drowsiness or respiratory irritation) occur. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice if cough or other symptoms appear.
The most important symptoms and hazardous effects:	See Section 11 for more detailed information on effects and symptoms
5. FIRE-FIGHTING MEASURES	
5. FIRE-FIGHTING MEASURES Suitable extinguishing media:	Water fog or fine spray, dry chemical fire, carbon dioxide extinguishers and foam; alcohol resistant foam (ACT type) are preferred; general purpose synthetic foams (including AFFF) or protein foams may function but will be less effective.
BONDIN	extinguishers and foam; alcohol resistant foam (ACT type) are preferred; general purpose synthetic foams (including AFFF) or
Suitable extinguishing media:	extinguishers and foam; alcohol resistant foam (ACT type) are preferred; general purpose synthetic foams (including AFFF) or protein foams may function but will be less effective.
Suitable extinguishing media: Unsuitable extinguishing media: Exposure hazards	<ul> <li>extinguishers and foam; alcohol resistant foam (ACT type) are preferred; general purpose synthetic foams (including AFFF) or protein foams may function but will be less effective.</li> <li>Direct water stream</li> <li>During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/ or irritating. Combustion products may include and are not</li> </ul>
Suitable extinguishing media: Unsuitable extinguishing media: Exposure hazards (combustion products):	<ul> <li>extinguishers and foam; alcohol resistant foam (ACT type) are preferred; general purpose synthetic foams (including AFFF) or protein foams may function but will be less effective.</li> <li>Direct water stream</li> <li>During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/ or irritating. Combustion products may include and are not limited to: Carbon oxides.</li> <li>Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Vapours are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur.</li> <li>Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting)</li> </ul>
Suitable extinguishing media: Unsuitable extinguishing media: Exposure hazards (combustion products): Unusual fire and explosion hazards: Special protective equipment for	<ul> <li>extinguishers and foam; alcohol resistant foam (ACT type) are preferred; general purpose synthetic foams (including AFFF) or protein foams may function but will be less effective.</li> <li>Direct water stream</li> <li>During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/ or irritating. Combustion products may include and are not limited to: Carbon oxides.</li> <li>Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Vapours are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur.</li> <li>Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or</li> </ul>



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water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Eliminate ignition sources. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.

### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions:	Wear appropriate personal protective equipment (see section 8) during cleaning. Avoid contact with eyes and skin. Avoid inhalation. No smoking in the area. Eliminate all sources of ignition in vicinity of spill or released vapour to avoid fire or explosion. Check area with combustible gas detector before re-entering area.
Environmental precautions:	Prevent the material from entering surface water or sanitary sewer system. Do not discharge directly to a water source. If accidental spillage or washings enter drains or watercourses contact local Environment Agency.
	Pick up with absorbent material. Sweep up absorbed substance,
Methods for cleaning up:	place in suitable and properly labelled waste containers for later disposal. Residual trace can be wiped away. Prevent entry into sewers and waterways. For large spills: Contain spilled material if possible. Ground and bond all containers and handling equipment.
	Pump with explosion-proof equipment. If available, use foam to smother or suppress.

7. HANDLING AND STORAGE	
7.1 Handling	
Personal precautions:	Wear personal protective equipment (see section 8). Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing vapour. No smoking, open flames or sources of ignition in handling and storage area.
Technical measures/ Precautions:	Provide good ventilation (local exhaust) of the working area, safety showers and eye wash station near the workplace. Use explosion-proof electrical equipment. Use only non-sparking tools.
7.2 Storage	
Technical measures Storage conditions:	Keep in the original container. Keep container tightly closed in a cool, dry, well-ventilated place. Keep product away from heat, sparks, flame and other sources of ignition and out of direct sunlight and away from incompatible materials. Check inhibitor space often and add inhibitor to bulk liquid if needed. Maintain head space in storage containers to support oxygen requirements of the inhibitor(s). Prevent materials from freezing (inhibitor can separate from product as a solid). Store below 90°F (32°C) and away from heat sources, strong oxidizers, radiation and other initiators.
Incompatible products:	Strong oxidizing agents, alkaline and aqueous acids.
8. EXPOSURE CONTROLS / PERSO	DNAL PROTECTION

#### Product name: CHINOX<sup>®</sup> 168 Date of issue: Nov. 22, 2021



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#### 8.1 Occupational exposure limits

#### 8.1.1 Control parameters

8 hours time weighted average exposure limits (TWA): Data not yet available

#### 8.2 Exposure controls

#### 8.2.1 Technical measures:

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### 8.2.2 Organisational measures:

Only personnel who have received appropriate training and are authorized allowed to handle the substance. Organize regular exposure monitoring to check that exposure levels of operators stay beyond exposure limit. Sampling and analysis should be carried out according to accepted methods.

8.3 Personal protective equipment			
Respiratory protection:	Recommended: NIOSH-approved respirator with minimum APF 10 For emergency conditions, use an approved positive-pressure self-contained breathing apparatus. Use the following CE approved air-purifying respirator: Organic vapor cartridge, type A (boiling point >65 °C)		
Hand protection:	When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 1 or higher (breakthrough time greater than 10 minutes according to EN 374) is recommended. After contamination with product change the gloves immediately and dispose them off according to relevant national and local regulations		
Eye protection:	Safety goggles should be consistent with EN 166 or equivalent .		
Skin and body protection:	Wear chemical-resistant protective clothing		

#### 8.4 Hygiene measures

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Keep away from foodstuffs, drinks and tobacco. 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.

#### 8.5 Environmental exposure controls:

Procedural and/or control technologies are used to minimize emissions and the resulting exposure during cleaning and maintenance procedures.

Transfer waste gases to a combustion unit or to a powder separator.

Do not apply industrial sludge to natural soils. Sealing of all relevant soil surfaces in the facility.

9. PHYSICAL AND CHEMICAL PROPERTIES		
Appearance:	White crystalline powder or granule	
Odour:	Odorless	
Odour threshold:	No data available	
pH:	6 (1% in water, as suspension)	
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Melting/Freezing temperature:	184-187 ℃	
Boiling point:	No data available	
Flashpoint:	No data available	
Evaporation rate:	No data available	
Auto ignition temperature:	No data available	
Decomposition temperature:	No data available	
Flammability:	Non flammable	
Upper/lower flammability or explosive limits:	No data available	
Explosive properties:	No data available	
Oxidizing properties:	No data available	
Vapour pressure:	1.3 x 10-8 Pa @20℃	
Vapour density:	No data available	
Relative density:	1.02 g/cm³ @20℃	
Solubility in water:	< 0.005 mg/l @20℃	
Viscosity:	No data available	
Specific gravity:	No data available	
Partition coefficient of n-octanol/water (log Pow):	> 6	
10. STABILITY AND REACTIVITY		
Chemical Stability:	Stable under normal conditions and recommend	d <mark>ed use.</mark>
Conditions to be avoided:	Static discharges. Keep product away from heat, sparks, flame and other sources of ignition. Avoid direct sunlight and UV light	
Materials to be avoided:	Strong oxidizing agents, alkaline and strong aci	ds.
Hazardous polymerization	Will not occur	
Hazardous decomposition products:	Thermal decomposition and burning may produ and other toxic gases and vapors	uce carbon oxides
<b>11. TOXICOLOGICAL INFORMATION</b>	N	
Routes of exposure:	Skin, inhalation, ingestion, eyes.	
ACUTE TOXICITY		
Acute oral toxicity, LD <sub>50</sub> :	> 6000 mg/kg bw (RAT)	
Acute dermal toxicity, LD <sub>50</sub> :	> 2000 mg/kg bw (RAT)	
Acute inhalation toxicity, LC <sub>50</sub> :	No data available	
LOCAL EFFECTS		
Skin irritation:	Not irritating	
Eye irritation:	Not irritating	
Skin sensitization:	Not sensitising	
OTHER		
Repeated dose toxicity:	No data available	
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Mutagenicity: Reproductive toxicity:	Negative No data available.	
Carcinogenicity:	No data available.	
12. ECOLOGICAL INFORMATION		
	≧100 mg/l (Brachydanio rerio)	
LC <sub>50</sub> -Fish-96h:		
EC <sub>50</sub> -Algae-72h: IC <sub>50</sub> -Bacteria-3h:	> 75.2 mg/l (Scenedesmus sp.) > 100 mg/l (Activated sludge)	
EC <sub>50</sub> -Invertebrate-24h:	510 mg/l (Daphnia magna)	
	S to mg/ (Dapinia magna)	
OTHER		
Biodegradation:	Not biodegradable	
Bioaccumulation	No data available	
Inhibition of microbial activity:	No data available	
Adsorption coefficient:	No data available	
Results of PBT and <u>vPvB</u> assessme	nt: No data available	
13. DISPOSAL CONSIDERATION	S	
Waste from residues:	Any disposal practices must in compliance with all national and provincial laws and any municipal or local by-laws governing hazardous waste. For used, contaminated and residual materials additional evaluations may be required. Do not dump into any sewers, on the ground, or into any body of water.	
Container: BONDIN	Containers should be cleaned by appropriate method and then re-used or disposed by landfill or incineration as appropriate, in accordance with local and national regulations. Do not remove label until container is thoroughly cleaned.	
14. TRANSPORT INFORMATION		
United nations number (UN No.):	Not classified as hazard transport goods.	
Transport hazardous class:	Not classified as hazard transport goods.	
UN Proper shipping name:	Not classified as hazard transport goods.	
Marine pollutant (YES/NO):	Not classified as hazard transport goods.	
ADR/RID:	t classified as hazard transport goods.	
IMDG/IMO:	t classified as hazard transport goods.	
IATA/ICAO:	Not classified as hazard transport goods.	
Specific transport measures and precautionary conditions:	Not classified as hazard transport goods.	
15. REGULATORY INFORMATION	N	
HMIS Classification		
Health Hazard: 1 Flammability:1	Physical Hazards: 0 Personal Protection: J	



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### **NFPA Classification**

Health Hazard: 1 Flammability: 1 Instability: 0

16. OTHER INFORMATION			
Shelf life	1 year		
Reference documents	European Chemicals Agency (ECHA)		
SDS prepared by	Company name	DOUBLE BOND CHEMICAL IND. CO., LTD.	
	Address	4F, 959, JUNGJENG RD., JUNGHE DISTRICT, NEW TAIPEI CITY, 23544 TAIWAN, R.O.C	
	TEL. / FAX.	+886-2-82281168 / +886-2-82281818	
	Title / Name (signature)	Technical Data Administrator / Shari Huang	

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance.

