



## KSCL

### MATERIAL SAFETY DATA SHEET (MSDS)

#### SECTION 1: Identification

##### 1.1 Product identifiers

**Product Name :** 3,5-Dichloro-6-hydroxyaniline  
**Cat No.:** H64801  
**CAS No. :** 527-62-8

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

**Recommended uses :** Laboratory chemicals  
**Uses advised against:** Food, drug, pesticide or biocidal product use.

##### 1.3 Details of the supplier of the safety data sheet

**Company :** Krishna Solvechem Ltd.  
B/503, Shayog, S. V. Road,  
Kandivali (West), Mumbai – 400067. India.  
**Telephone :** +91-22-6123 0222  
**Email :** [exports@kscl.co.in](mailto:exports@kscl.co.in)

##### 1.4 Emergency telephone number

**Emergency Phone :** +91-8657447330

#### SECTION 2: Hazards identification

##### 2.1 Classification

**CLP Classification – Regulation (EC) No 1272/2008**

**Physical hazards :** based on available data, the classification criteria are not met

**Health hazards:**

Acute oral toxicity	(Category 4) H302
Acute dermal toxicity	(Category 4) H312
Acute inhalation toxicity – Dusts and Mists	(Category 4) H332
Specific target organ toxicity (single exposure)	(Category 3) H335
Skin corrosion/Irritation	(Category 2) H315
Serious eye damage/Eye irritation	(Category 2) H319

**Environmental hazards :** Based on available data, the classification criteria are not met

##### 2.2 Label elements

**Pictogram :**



**Signal word**

Warning

**Hazard statement (s)**

H315 – Causes skin irritation



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	H319 – Causes serious eye irritation H335 – May cause respiratory irritation H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled
<b>Precautionary statement (s)</b>	
<b>P301 + P330 + P331</b>	IF SWALLOWED : Rinse mouth. Do NOT induce vomiting
<b>P312</b>	Call a POISON CENTER or doctor/physician if you feel unwell
<b>P302 + P352</b>	IF ON SKIN : Wash with plenty of soap and water
<b>P304 + P340</b>	IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing
<b>P337 + P313</b>	If eye irritation persists : Get medical advice/attention
<b>P280</b>	Wear protective gloves/protective clothing/eye protection/face protection
<b>P332 + P313</b>	If skin irritation occurs : Get medical advice/attention
<b>2.3 Other hazards</b>	No information available

### SECTION 3: Composition / information on ingredients

#### 3.1

Component	CAS-No	Weight %
2-Amino-4,6-dichlorophenol	527-62-8	<=100

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

<b>General Advice:</b>	If symptoms persist, call a physician.
<b>If inhalation :</b>	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
<b>In case of skin contact :</b>	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
<b>In case of eye contact :</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
<b>Ingestion :</b>	Clean mouth with water and drink afterwards plenty of water.



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<b>Self-Protection of the First Aider</b>	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination
<b>4.2 Most important symptoms and effects :</b>	None reasonably foreseeable
<b>4.3 Notes to Physician :</b>	Treat symptomatically
<b>SECTION 5: Firefighting effects</b>	
<b>5.1 Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, carbon dioxide (CO <sub>2</sub> ), dry chemical, alcohol-resistant foam.
<b>Unsuitable Extinguishing Media</b>	No information available
<b>5.2 Flash Point : Method :</b>	No information available No information available
<b>Autoignition Temperature: Explosion Limits: Upper Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge</b>	No information available No data available No data available No information available No information available
<b>Specific Hazards Arising from the Chemical : Hazardous Combustion Products :</b>	Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Hydrogen chloride. Nitrogen oxides.
<b>5.4 Protective Equipment and Precautions for Firefighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>SECTION 6: Accidental release measures</b>	
<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	
Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.	



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<b>6.2 Environmental precautions</b>
Should not be released into the environment. See section 12 for additional Ecological Information.
<b>6.3 Methods and materials for containment and cleaning up</b>
Keep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.
<b>6.4 Reference to other sections</b>
Refer to protective measures listed in Sections 8 and 13.
<b>SECTION 7: Handling and storage</b>
<b>7.1 Precautions for safe handling</b>
Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.  <b>Hygiene Measures</b> Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. <del>Wash hands before breaks and after work.</del>
<b>7.2 Conditions for safe storage</b>
Keep container tightly closed in a dry and well-ventilated place. <b>Technical rules for Hazardous Substances (TRGS) 510 Storage Class (LGK) (Germany)</b> Class 11
<b>7.3 Specific end use(s)</b>
Use in laboratories
<b>SECTION 8: Exposure controls/personal protection</b>
<b>8.1 Control Parameters</b>
<b>Exposure limits</b> This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. <b>Biological limit values</b> This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. <b>Monitoring methods</b> BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. <b>Derived No Effect Level (DNEL)</b> No information available <b>Predicted No Effect Concentration (PNEC)</b> No information available <b>Engineering Measures</b> Ensure that eyewash stations and safety showers are close to the workstation location. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source



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<b>8.2</b>	<b>Exposure controls</b>
<p><b>Personal protective equipment -</b></p> <p><b>Eye / Face protection</b> Goggles European Standard EN166.</p> <p><b>Skin protection and body protection</b> Long sleeved clothing</p> <p><b>Hand Protection</b> Protective gloves</p> <p><b>Glove material :</b> Natural rubber, Nitrile rubber, Neoprene, PVC</p> <p><b>Breakthrough time :</b> See manufacturers recommendations</p> <p><b>EU Standard :</b> EN 374</p> <p><b>Glove comments :</b> minimum requirement Inspect gloves before use. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) Ensure gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Remove gloves with care avoiding skin contamination.</p> <p><b>Respiratory protection</b> When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly</p> <p><b>Large scale/emergency use</b> Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced</p> <p><b>Recommended Filter type:</b> Particulates filter conforming to EN 143</p> <p><b>Small scale/Laboratory use</b> Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.</p> <p><b>Recommended half mask:-</b> Valve filtering: EN405; or; Half mask: EN140; plus filter, EN 141 When RPE is used a face piece Fit Test should be conducted</p> <p><b>Environmental exposure controls</b> No information available</p>	

### SECTION 9: Physical and chemical properties

<b>9.1 Information on basic physical and chemical properties</b>	
<b>a) Appearance</b>	Form: solid, yellow - brown
<b>b) Odour</b>	No information available
<b>c) Odour Threshold</b>	No data available
<b>d) pH</b>	No information available
<b>e) Melting point / freezing point</b>	89 - 94 °C / 192.2 - 201.2 °F
<b>f) Initial boiling point and</b>	No information available



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<b>boiling range</b>	
<b>g) Flash point</b>	No information available
<b>h) Evaporation rate</b>	Not applicable - solid
<b>i) Flammability (solid, gas)</b>	Not applicable
<b>j) Upper/lower flammability or explosive limits</b>	No data available No data available
<b>k) Vapour pressure</b>	No data available
<b>l) Vapour density</b>	Not applicable
<b>m) Specific Gravity</b>	No information available
<b>n) Solubility</b>	No information available
<b>o) Partition coefficient: n octanol/water</b>	No data available
<b>p) Auto-ignition temperature</b>	No information available
<b>q) Decomposition temperature</b>	No data available
<b>r) Viscosity</b>	No information available
<b>s) Molecular formula</b>	C <sub>6</sub> H <sub>5</sub> Cl <sub>2</sub> N O
<b>t) Molecular Weight</b>	178.01
<b>SECTION 10: Stability and Reactivity</b>	
<b>10.1 Reactive Hazard :</b>	None known, based on information available
<b>10.2 Chemical stability :</b>	Stable under normal conditions.
<b>10.3 Possibility of hazardous reactions :</b>	None under normal processing.
<b>10.4 Conditions to avoid :</b>	Excess heat. Incompatible products.
<b>10.5 Incompatible materials:</b>	None known
<b>10.6 Hazardous decomposition products :</b>	Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Hydrogen chloride, Nitrogen oxides
<b>10.7 Hazardous Polymerization</b>	No information available



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### SECTION 11: Toxicological information

#### 11.1

#### Information on toxicological effects

##### **Acute toxicity:**

##### **Product Information**

**Oral**                   Category 4

**Dermal**              Category 4

**Inhalation**        Category 4

##### **Component Information**

**Toxicologically Synergistic Products**   No information available

#### **Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/Irritation :**   Category 2

**Serious eye damage/irritation:**   Category 2

**Carcinogenicity :**   No data available

There are no known carcinogenic chemicals in this product

**Mutagenic Effects:**   No information available.

**Reproductive Effects:**   No information available.

**Developmental Effects :**   No information available.

**Teratogenicity:**   No information available.

**STOT - single exposure :**   Respiratory system

**STOT - repeated exposure:**   None known

**Aspiration hazard :**   Not applicable solid

**Symptoms / effects, both acute and delayed:**   No information available

**Endocrine Disruptor Information :**   Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.



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### SECTION 12: Ecological information

<b>12.1 Ecotoxicity:</b>	contains no substances known to be hazardous to the environment or that are degradable in waste water treatment plants.
<b>12.2 Persistence and degradability:</b>	No information available
<b>Bioaccumulation/ Accumulation</b>	No information available
<b>12.3 Mobility:</b>	No information available
<b>12.4 Results of PBT and vPvB Assessment</b>	No data available for assessment.

### SECTION 13: Disposal considerations

<b>13.1 Waste treatment methods</b>	<p><b>Waste from Residues/unused products :</b> Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.</p> <p><b>Contaminated Packaging :</b> Dispose of this container to hazardous or special waste collection point.</p> <p><b>European Waste Catalogue (EWC) :</b> According to the European Waste Catalog, Waste Codes are not product specific, but application specific.</p> <p><b>Other Information :</b> Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains.</p>
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### SECTION 14: Transport information

<b>14.1 UN number :</b>	ADR: UN2811      IMDG: UN2811 IATA: UN2811
<b>14.2 UN proper shipping name</b>	
<b>ADR :</b>	Toxic solid, organic, n.o.s.
<b>IMDG :</b>	Toxic solid, organic, n.o.s.
<b>IATA :</b>	TOXIC SOLID, ORGANIC, N.O.S.*
<b>14.3 Transport hazard class(es)</b>	ADR: 6.1                      IMDG: 6.1                      IATA: 6.1
<b>14.4 Packaging group:</b>	ADR: III                      IMDG: III                      IATA: III
<b>14.5 Environmental hazards</b>	No hazards identified
<b>14.6 Maritime transport in bulk According to IMO instruments</b>	Not applicable, packaged goods





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### SECTION 15: Regulatory information

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

##### International inventories

X = listed, Europe (EINECS/ELINCS/NLP), U.S.A. (TSCA), Canada (DSL/NDSL), Philippines (PICCS), China (IECSC), Japan (ENCS), Australia (AICS), Korea (ECL).

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	AICS	KECL
2-Amino-4,6-dichlorophenol	208-421-3	-		-	-	-	-	X	-	-	-

#### Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

##### National Regulations

##### WGK Classification

Water endangering class = 3 (self classification)

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

#### 15.2 Chemical safety Assessment :

Chemical Safety Assessment/Report (CSA/CSR) has not been conducted.

### SECTION 16: Other information

#### 16.1 Prepared By:

Regulatory affairs  
Krishna Solvechem Ltd

#### Email:

[exports@kscl.co.in](mailto:exports@kscl.co.in)

#### Revision Date:

10-Feb-2021

#### Print Date:

10-Feb-2021

#### Revision Summary:

Update to CLP format  
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) NO 1907/2006



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### 16.2 Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed  
H312 - Harmful in contact with skin  
H332 – Harmful if inhaled  
H315 – Causes skin irritation  
H319 – Causes serious eye irritation  
H335 – May cause respiratory irritation

#### Legend

**CAS** - Chemical Abstracts Service  
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**IECSC** - Chinese Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**WEL** - Workplace Exposure Limit  
**ACGIH** - American Conference of Governmental Industrial Hygienists  
**DNEL** - Derived No Effect Level  
**RPE** - Respiratory Protective Equipment  
**LC50** - Lethal Concentration 50%  
**NOEC** - No Observed Effect Concentration  
**PBT** - Persistent, Bioaccumulative, Toxic  
**ADR** - European Agreement Concerning the International Carriage of Dangerous Goods by Road  
**IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code  
**OECD** - Organisation for Economic Co-operation and Development  
**BCF** - Bioconcentration factor  
**ICAO/IATA** - International Civil Aviation Organization/International Air Transport Association  
**MARPOL** - International Convention for the Prevention of Pollution from Ships  
**ATE** - Acute Toxicity Estimate  
VOC (volatile organic compound)

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**ENCS** - Japanese Existing and New Chemical substances  
**AICS** - Australian Inventory of Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals  
**TWA** - Time Weighted Average  
**IARC** - International Agency for Research on Cancer Predicted No Effect Concentration (PNEC)  
**LD50** - Lethal Dose 50%  
**EC50** - Effective Concentration 50%  
**POW** - Partition coefficient Octanol:Water  
**vPvB** - very Persistent, very Bioaccumulative

#### Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene. Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards. First aid for chemical exposure, including the use of eye wash and safety showers.

### 16.3 Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.