



Materials Safety Date Sheet (MSDS)

1. Chemical Product and Company Identification

Product Name: Antioxidant HS-911

Product Code: Q/321300GHX003—2008

Manufacturer: Wahsing(shukchin) Chemical Company Limited

Address: Wei'er Road, North Site, Suqian Economic Development Zone, Jiangsu Province,
P.R.China.

Emergency Telephone Number :Tel :+86- 527- 84839918

Fax:+86 -527 -84839777

2. Composition / information on ingredient

Chemical Name : 4,4'-Di-phenyl-isopropyl diphenylamine

CAS No.: 10081-67-1

Content : $\geq 34\%$

3. Hazards identification

Most important hazards effects and emergency overview:

The product has no burning and exploding reaction.Keep away from sources of heat, ignition, and flame.

After eye contact : Slight stimulates the eyes

After skin contact: No visible hazard

After inhalation: infect respiratory tract

After ingestion: Excessive ingestion may result in pathologic changes

4. First aid measures

In Eyes: In case of contact ,immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

On skin: remove contaminated clothing and launder before reuse.wash with soap and water.get medical attention if irritation persist.

Inhaled: remove person to fresh air.if breathing is difficult,get immediate medial attention

Swallowed: if swallowed,call a physician immediately.only induce vomiting at the instruction of a physician.never give anything by mouth to an unconscious person.

5. Fire Fighting Measures

Flash point($^{\circ}$ F/C): not determined

Autoignition temp($^{\circ}$ F/C): not determined



Lower explosion limit in air(LEL):not determined

Upper explosion limit in air(UEL):not determined

Extinguishing media:water fog,carbon dioxide,foam,dry chemical

Special exposure equipment:fire fighters should wear full protective clothing,including self-contained breathing equipment.

Unusual fire/explosion hazards:toxic emissions may result if product is involved in a fire

6. Accident release measures

Spill procedures: wear protective equipment specified.avoid the generation of dust.sweep,vacuum,or shovel and place into closable container for disposal.

Prodedure for cleaning/absorption:isolate area and remove sources of friction,impact,heat,low level electrical current,and Rfenergy.Isolate spill and stop leak where safe.Remove ignition sources and work with non-sparking tools.Scoop up and remove solids.Do NOT spread spilled product with water.

CERCLA Reportable Quantity(RQ):Not Applicable.

7. Handling and storage

Handling;Good hygienic practices should be observed.Work clothes should be washed seperately at the end of each work day.Disposable clothing should be discarded with material.Avoid generating or breathing dust.Avoid contact with eyes,skin and clothing.Reclose containers of unused product.Wash hands before eating,drinking,chewing gum,using tobacco or using th toilet.Do not reuse this container.

Storage:Store closed containers in a cool,dry,well-ventilated area.Store away from Strong oxidizing materials.Avoid exposure to direct sunlight.Do not double stack.

8. Physical and chemical properties

Appearance: White or light gray powder or granule

Heating Loss $\leq 0.7\%$

Molecular Weight:405

Molecular Formula: $C_{30}H_{31}N$

Chemical function: HS-911 is a kind of high-efficient nontoxic Antioxidant to replace D, A, RD and so on which are carcinogenic. HS-911 can be used in NR, IIR, SBR, NBR, BR, CR and their blend, and is especially efficient in protecting CR from thermal aging. It can also be used in plastic industry. HS-911 not only can protect vulcanized rubber from thermal aging, light aging, ozone aging and damage caused by repeating deformation, but also has a passivating effect on heavy metal and transition metal. Because of its light contamination, HS-911 can be used in insulative and protective rubber sheeting for color wires and cables as well as common color rubber products in place of Antioxidant 264, SP, 2264, MB, DNP, etc, to greatly reduce the production cost. In carbon black rubber, it has oxidation resistance of amine type, and will not pollute products. HS-911 can be exclusively used or used together with other Antioxidant . Normal dosage in rubber is 2-3 phr.



9. Stability and reactivity

Chemical Stability: Stable when stored at room temperature in closed, original container. Stable under normal conditions of handling, use and transportation.

Hazardous Polymerization: Will not occur

Conditions to Avoid: Avoid contact with heat, sparks, open flame, and static discharge. Avoid contact with strong oxidants such as liquid chlorine and concentrated oxygen. Heat.

10. Toxicological information

Does not belong to toxic category of dangerous goods.

11. Ecological information

Disposal of waste Method: This material is not a RCRA hazardous waste. Bury in a licensed landfill or burn in an approved incinerator according to federal, state, and local regulations. Empty containers should be handled in a manner not to cause dusting during collection, transportation and disposal.

Contaminated Package: If empty container retains product residues, all label precautions must be observed. Store away from ignition sources. Transport with all closures in place. Return for reuse or dispose according to national or local regulations. Dispose of container according to national or local regulations.

12. Transport information

Land transport: This product is not dangerous, transportation comply with national and international regulations.

Sea transport: This product is not dangerous, transportation comply with national and international regulations.

Air transport: Required to produce proof of relevant institutions.

13. Regulatory information

Risk Phrases: This product is not classified according to P.R. China Legislation.

14. Other information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

END OF MSDS

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地址: 江苏省宿迁市经济开发区北区纬二路

电话: 0086-527-84839788 84839008 84839778 传真: 0086-527-84839777

网址: <http://www.huaxingchem.net>

E-mail: info@huaxingchem.net