

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product: **Sodium Hypochlorite Solution 14-15% w/w available chlorine**
COMPANY: AFS ANIMAL CARE LTD
Stephenson Way
Thetford
Norfolk
IP24 3RH
Tel No. 44(0)1842 765634
Fax No. 44(0)1842 820152
Emergency Tel No. 999

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family Name: Oxidising Agent
CAS No.: 7681-52-9

3. HAZARDS IDENTIFICATION

Main Hazards CONTACT WITH ACIDS PRODUCES HIGHLY TOXIC CHLORINE GAS.
Corrosive
Inhalation Irritation of the nose, throat and respiratory system
Skin Contact Irritation. Prolonged irritation may cause burns
Eye Contact Severe damage
Ingestion Severe irritation and corrosion of mouth, throat and digestive tract

4. FIRST AID MEASURES

First Aid - Eyes Immediately flush with plenty of water, holding the eye open if necessary.
Obtain medical attention
First Aid - Skin Immediately wash with water, preferably under a shower, removing
contaminated clothing as washing proceeds. Obtain medical attention if
irritation persists or if blistering occurs. Wash clothing before re-use
First Aid - Inhalation Remove to fresh air. Keep warm and at rest. If there is respiratory distress
give oxygen. If respiration stops or shows signs of failing apply artificial
respiration. Obtain medical attention urgently.
First Aid - Ingestion Do not induce vomiting. Wash out mouth with water; give plenty of water or
milk to drink. OBTAIN MEDICAL ATTENTION IMMEDIATELY.
Treatment may be needed for pain and shock
Note for Doctors Harmful by ingestion, inhalation, skin and eye contact. Local corrosive effects
predominate. No known systemic effects. No specific antidotal treatment,
symptomatic support required. No known delayed effects after single
exposure apart from consequence of local tissue damage.

5. FIRE FIGHTING MEASURES

Extinguishing Media Not applicable. Sodium hypochlorite solution is non flammable

6. ACCIDENTAL RELEASE MEASURES

Spillages Small spillages - chemically treat with sodium sulphite, wash residues away with
copious amounts of water. Collect and treat all water used in the clean up.
Large spillages - prevent product from reaching drains etc. Contain spillage using
earth or sand and pump into an emergency tank. Dispose of, if necessary using
licensed waste disposal contractors. Wash down area with water. Collect and
treat all water used in the clean up.
Environmental Precautions If spillage or contaminated washings causes contamination of water courses,
drains or vegetation inform relevant authorities
Personal Precautions Wear full protective clothing. See Exposure controls/Personal Protection Section
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7. HANDLING AND STORAGE

Handling Wear protective clothing. Provide safety showers and eyebaths in areas where
accidental exposure is possible
Storage Sodium hypochlorite should be stored in a closed vessel. It should be stored
away from reactive chemicals. Product decomposes slowly on standing with
the evolution of some oxygen. Rate of decomposition can be minimised by
careful control of quality and storage conditions. Factors that increase the rate

of decomposition are, high initial concentration, increase in temperature, certain metallic impurities, and fall in pH below 11 exposures to light.
 Unsuitable materials: nickel and its alloys, cobalt, copper and its alloys, carbon steel, mild steel, stainless steel (essential all metals except titanium)
 Suitable materials: rubber (certain types), ceramic, glass, lined mild steel, PVC, PVC lined GRP, polyethylene, Titanium, PTFE and similar fluorinated polymers

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protection PVC suit, PVC or rubber footwear, PVC gloves, Chemical goggles.
 Nylon and wool are rapidly corroded, cotton is preferred, Terylene is resistant, but can be easily penetrated
 Occupational Exposure Limits TWA: STEL: Not assigned
 Installation Control See Handling and Storage Section 7

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear, greenish-yellow liquid
 Vapour (air = 1.0)
 Density Liquid kg/m³ at °C 1245 at 20°C
 Bulk kg/m³ at °C
 Odour Characteristic bleach odour
 Molecular 74.44 (NaOCl)
 Ph Not applicable
 Solubility Completely soluble in water
 Boiling Point (C°) approx 107°C
 Melting Point (C°) Crystals of sodium chloride form at low temperatures. Solution solidifies at -25°C
 Vapour Pressure Similar to water at ambient temperatures
 Flash Point Not applicable
 Flammability Not applicable
 Auto Flammability Not applicable

10. STABILITY AND REACTIVITY

Stability Product decomposes over time - See Handling and Storage Section 7
 Conditions to Avoid See Handling and Storage Section 7
 Materials to Avoid
 Water No dangerous reaction, completely soluble
 Air No dangerous reaction
 Acids Decomposes violently with rapid evolution of chlorine
 Bases/Alkalis No reaction, Alkaline hydroxides act as stabilisers and are added to commercial preparations
 Oxidizing Agents Sodium or hydrogen peroxides; exothermic decomposition with liberation of oxygen. Other oxidizing agents: possible evolution of oxygen or chlorine
 Other Chemicals Readily oxidizes most organic matter and dangerous reactions are possible with alcohols, aldehydes, ketones, unsaturated hydro and halocarbons.
 Explosive reactions are possible with ammonia and ammonium compounds
 Hazardous Decomposition Products Chlorine will be evolved if product is inadvertently mixed with incompatible materials (see above)

11. TOXICOLOGICAL INFORMATION

Eyes Liquid: severe damage, even on short duration
 Vapour: irritation
 Skin Liquid: severe irritation and burns if contact prolonged
 Vapour: little or no effect
 Skin absorption No systemic effects by any route of exposure
 Ingestion Severe irritation and corrosion of the mouth, throat and digestive tract
 Inhalation Acute effect: Exposure to the mist or spray causes irritation of the nose, throat and respiratory tract.
 Chronic effect: Not known

12. **ECOLOGICAL INFORMATION**

1ppm available chlorine is toxic to all fish
0.4 ppm available chlorine is toxic to game fish

13. **DISPOSAL CONSIDERATIONS**

Spillages	Wear full protective clothing. See Exposure Controls/Personal Protection Section 8
Waste	Dispose of sodium hypochlorite solutions or materials contaminated with same using a licensed contractor in accordance with Waste Disposal regulations

14. **TRANSPORT INFORMATION**

UN Substance Identification No.	1791 Class 8 corrosive substance
RID/ADR Classification	8.61° (c) ADR 5-16% available chlorine HIN.80
IMO Classification	8, corrosive
IATA Classification	Passenger - 1 litre max. Cargo - 30 litres max
Tremcard Number	45/80G12
Normal Carriage Pressure	Atmospheric
Normal Carriage Temperature	Ambient

15. **REGULATORY INFORMATION**

Classification and Labelling according to
EEC Directives

Classification	C - Corrosive
Risk Phrases	R31: Contact with acids liberates toxic gas R34: Causes burns
Safety Phrases	S2: Keep out of reach of children S28: After contact with skin wash immediately with plenty of water S45: In case of accident of you feel unwell seek medical advice immediately (show this label where possible) S50: Do not mix with acids

16. **OTHER INFORMATION**