



Double Base Powders
MATERIAL SAFETY DATA SHEET
April 2009

The following smokeless powders
are distributed by
IMR Legendary Powders

HI-Skor 700X™
HI-Skor 800X™

Double Base Smokeless Powder MSDS

MATERIAL SAFETY DATA SHEET

IMR POWDER COMPANY

IDENTIFICATION

NAME: DOUBLE BASE SMOKELESS POWDER

Trade Names and Synonyms:

SS ####, RF ####, HI-SKOR

####= Number Designation for Products

MANUFACTURER

Product Information Phone: (913) 362-9455

HAZARDOUS COMPONENTS

CHEMICAL	CAS NUMBER
Nitrocellulose	94004-70-0
Nitroglycerine	55-63-0

PHYSICAL DATA

Specific Gravity:	1.65
Solubility in H ₂ O:	Negligible
Color:	Gray.
Form:	Perforated or non perforated small discs.

HAZARDOUS REACTIVITY

INSTABILITY:

Unstable with heat, Unstable with static charges. Unstable with impact. Not hazardous if product

used properly.

INCOMPATIBILITY:

Incompatible with acids, alkalis, oxidants.

DECOMPOSITION:

Decomposes with heat. Hazardous gases produced are carbon monoxide. Decomposes with impact, static charges.

POLYMERIZATION:

Polymerization will not occur.

FIRE AND EXPLOSION DATA

Ignition temperature: 160-170 degC

FIRE AND EXPLOSION HAZARDS

Hazardous gases produced in fire are carbon monoxide 1.3C (DOT), >100 lbs

Flammable Solid, 100 lbs. or less. Burns uncontrollably. Produces shrapnel if confined.

EXTINGUISHING MEDIA

None

SPECIAL FIRE FIGHTING INSTRUCTIONS

Do not fight fire. Isolate area. Evacuate personnel to a safe area.

Guard against intruders.

HEALTH HAZARD INFORMATION

PRINCIPAL HEALTH HAZARDS

These products have not been tested for toxicity. They are 1.3C Explosives and burning, confined or unconfined, can cause physical injury, including death. The toxicity effects given below for the hazardous components may result from gross chronic or acute overexposure to the products by inhalation, eye or skin contact or ingestion.

NITROGLYCERINE

Oral LD50: 525 mg/kg in rats

Toxic effects described in animals from exposure by ingestion, include decreased weight gain methemoglobinemia, reproductive effects, and endocrine organ changes. Tests in some animals demonstrate carcinogenic and reproductive activity but no embryotoxic activity.

Human health effects from overexposure by inhalation, skin or eye contact, or ingestion may initially include headaches and temporary lowering of blood pressure. High exposures may lead to temporary nervous system depression,

with anesthetic effects such as dizziness, confusion, or in coordination; reduction of the blood's oxygen carrying capacity with cyanosis, weakness, or shortness of breath; and death from gross overexposure. Evidence suggests that skin permeation can occur in amounts capable of producing the effects of systemic toxicity. Epidemiological studies suggest that this compound may pose a risk of some diseases of the circulatory system to humans. Individuals with pre-existing diseases of the central nervous system or cardiovascular system may have increased susceptibility to the toxicity of excessive exposures.

NITROCELLULOSE

Oral LD50: >5,000 mg/kg in rats

The compound is not a skin or eye irritant.

CARCINOGENICITY

None of the component(s) of this material is listed as a carcinogen by HTP, IARC, or OSHA

EXPOSURE LIMITED

TLV* (ACGIH) : None established.

PEL (OSHA) : None established.

*TLV is a registered trademark.

Nitroglycerine: TLV (ACGIH) 0.05ppm, Skin
PEL (OSHA) 0.2ppm, Skin, C

SAFETY INFORMATION

SAFETY PRECAUTIONS

Avoid contact with eyes. Avoid contact with skin. Avoid contact with clothing. Avoid breathing dust. Wash thoroughly after handling. Wash clothing after use. Avoid breathing powder fumes. Keep out of reach of children.

FIRST AID

INHALATION:

If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT:

In case of contact, wash with soap and plenty of water.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician.

NOTE: Burning smokeless powder may cause extensive and deep burns. Get medical attention immediately. Immerse burned area in cold water.

PROTECTION INFORMATION

GENERALLY APPLICABLE CONTROL MEASURES AND PRECAUTIONS

Use only with adequate ventilation. Keep away from heat, sparks and flames. Keep container in a cool place. Keep container tightly closed. Avoid dust generation. Do not mix with acids, alkalis. Do not consume food, drink or tobacco in areas where they may become contaminated with this material. Use spark proof tools and equipment. Do not allow powder to accumulate in exhaust system.

PERSONAL PROTECTIVE EQUIPMENT

Safety glasses. Protective cotton gloves.

SPILL, LEAK, OR RELEASE

Review **FIRE AND EXPLOSION HAZARDS AND SAFETY PRECAUTIONS** before proceeding with clean up. Use appropriate **PERSONAL PROTECTIVE EQUIPMENT** during clean up.

Control access to area. Remove source of heat, sparks, flames, impact, friction or electricity. Pick up by hand for disposal. Do not use power equipment. Do not use damaged or wet material. Never return to container for reuse. Use nonsparking tools for clean up.

WASTE DISPOSAL

Do not burn. Consult an explosives manufacturer for recommended methods of destroying explosive materials. Comply with applicable Federal Regulations under the authority of the Resource Conservation and Recovery Act (40 CFR, parts 260-271). May be stored under water until disposed of.

SHIPPING INFORMATION

Check manufacturer or shipper for specific information.

STORAGE CONDITIONS

Store in well ventilated area. Store in cool place. Keep container tightly closed. Do not store with other explosives. Store in accordance with National Fire Protection Assoc. regulations. Store in accordance with Federal Regulations. Do not store or consume food, drink, or tobacco in areas where they may become contaminated with this material. Store in approved type magazine.

ADDITIONAL INFORMATION AND REFERENCES

PERSONS HANDLING EXPLOSIVES MUST BE TRAINED IN THE CORRECT PROCEDURES FOR THEIR USE.

General exhaust is adequate under normal operating conditions.
Local exhaust ventilation may be required in specific circumstances.
If risk of overexposure exists, wear approved respirator.
Correct fit is essential to obtain adequate protection.
Provide adequate ventilation in warehouse or closed storage areas.

Date of latest Revision: May, 1, 2001
Person Responsible for MSDS: Product Manager

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