Sh	Tel: (630) 766-2112 mail: <u>sales@chemimpex.com</u> ipping and Correspondence: 935 Dillon Drive Wood Dale, IL 60191 USA	Fax: (630) 766-2218 Web site: <u>www.chemimpex.com</u> Manufacturing site: 825 Dillon Drive Wood Dale, IL 60191 USA
M	ATERIAL S	AFETY DATA SHEET
ECTION 1. CH	HEMICAL IDENTIFICAT:	ION
CATALOG #:	26662	
NAME :	1 <i>H</i> -Benzin	nidazole-5-sulfonyl chloride hydrochloride
SYNONYMS:		
24 HOUR EMERG	ENCY TELEPHONE:	(800) 535-5053(USA) 352-323-3500 (INTERNATIONAL)
TO REQUEST AN	MSDS:	(800) 869-9290
CUSTOMER SERVICE:		(630) 766-2112
ECTION 2. CO	DMPOSITION/INFORMAT	ION ON INGREDIENTS
CAS #:	1094350-	38-5
MF:	C7H5ClN2C	D ₂ S·HCl
MW:	253.11	
PURITY:	≥ 99% (A	ssay)
	≥ 99% (A AZARDS IDENTIFICATIO	
	AZARDS IDENTIFICATI VERVIEW LIGHT GRE CORROSIVI TH EFFECTS	ON Y POWDER E
ECTION 3. HZ EMERGENCY OV APPEARANCE: WARNING POTENTIAL HEAI INHALATION	AZARDS IDENTIFICATIO VERVIEW LIGHT GRE CORROSIVI TH EFFECTS MAY BE HA IRRITATION	ON Y POWDER E RMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT
ECTION 3. HA EMERGENCY OV APPEARANCE: WARNING POTENTIAL HEAI INHALATION INGESTION SKIN	AZARDS IDENTIFICATI VERVIEW LIGHT GRE CORROSIVI TH EFFECTS MAY BE HA IRRITATION MAY BE HA MAY BE HA IRRITATION	ON Y POWDER E RMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT J. RMFUL IF SWALLOWED. RMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN J.
ECTION 3. HA EMERGENCY OV APPEARANCE: WARNING POTENTIAL HEAI INHALATION INGESTION	AZARDS IDENTIFICATIO VERVIEW LIGHT GRE CORROSIVI TH EFFECTS MAY BE HA IRRITATION MAY BE HA IRRITATION MAY CAUSI	ON Y POWDER E RMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT I. RMFUL IF SWALLOWED. RMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN I. E EYE IRRITATION.
ECTION 3. HA EMERGENCY OV APPEARANCE: WARNING POTENTIAL HEAI INHALATION INGESTION SKIN EYES : SPECIFIC TARGET	AZARDS IDENTIFICATI VERVIEW LIGHT GRE CORROSIVI TH EFFECTS MAY BE HA IRRITATION MAY BE HA IRRITATION MAY BE HA IRRITATION MAY CAUSE F ORGAN NO DATA A	ON Y POWDER E RMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT J. RMFUL IF SWALLOWED. RMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN J. E EYE IRRITATION. VALIABLE.
ECTION 3. HA EMERGENCY OV APPEARANCE: WARNING POTENTIAL HEAI INHALATION INGESTION SKIN EYES : SPECIFIC TARGET TOXICITY : POTENTIAL ENVI EFFECTS:	AZARDS IDENTIFICATIO VERVIEW LIGHT GRE CORROSIVI TH EFFECTS MAY BE HA IRRITATION MAY BE HA IRRITATION MAY CAUSI F ORGAN NO DATA AY	ON Y POWDER E RMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT J. RMFUL IF SWALLOWED. RMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN J. E EYE IRRITATION. VALIABLE.
ECTION 3. HA EMERGENCY OV APPEARANCE: WARNING POTENTIAL HEAI INHALATION INGESTION SKIN EYES : SPECIFIC TARGET TOXICITY : POTENTIAL ENVI EFFECTS:	AZARDS IDENTIFICATIO VERVIEW LIGHT GRE CORROSIVI TH EFFECTS MAY BE HA IRRITATION MAY BE HA IRRITATION MAY BE HA IRRITATION MAY CAUSI FORGAN NO DATA AN RONMENTAL NO DATA AN IRST-AID MEASURES CE CONSULT	ON Y POWDER E RMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT A RMFUL IF SWALLOWED. RMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN A E EYE IRRITATION. VALIABLE. VALIABLE.
ECTION 3. HA EMERGENCY OV APPEARANCE: WARNING POTENTIAL HEAI INHALATION INGESTION SKIN EYES : SPECIFIC TARGET TOXICITY : POTENTIAL ENVI EFFECTS: ECTION 4. FI	AZARDS IDENTIFICATIO /ERVIEW LIGHT GRE CORROSIVI TH EFFECTS MAY BE HA IRRITATION MAY BE HA IRRITATION MAY BE HA IRRITATION MAY CAUSI FORGAN NO DATA AN RONMENTAL NO DATA AN IRST-AID MEASURES CE CONSULT DOCTOR I IF BREATH	Y POWDER E RMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT A. RMFUL IF SWALLOWED. RMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN A. E EYE IRRITATION. VALIABLE. VALIABLE. VALIABLE. VALIABLE. IN ATTENDANCE. HED IN, MOVE PERSON INTO FRESH AIR. IF NOT IG GIVE ARTIFICIAL RESPIRATION CONSULT A
ECTION 3. HZ EMERGENCY OV APPEARANCE: WARNING POTENTIAL HEAI INHALATION INGESTION SKIN EYES : SPECIFIC TARGET TOXICITY : POTENTIAL ENVI EFFECTS: ECTION 4. FI GENERAL ADVIO	AZARDS IDENTIFICATIO	Y POWDER E RMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT J. RMFUL IF SWALLOWED. RMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN J. E EYE IRRITATION. VALIABLE. VALIABLE. VALIABLE. A PHYSICIAN. SHOW THIS SAFETY DATA SHEET TO THE N ATTENDANCE. HED IN, MOVE PERSON INTO FRESH AIR. IF NOT IG GIVE ARTIFICIAL RESPIRATION CONSULT A N.
ECTION 3. HA EMERGENCY OV APPEARANCE: WARNING POTENTIAL HEAI INHALATION INGESTION SKIN EYES : SPECIFIC TARGET TOXICITY : POTENTIAL ENVI EFFECTS: ECTION 4. FI GENERAL ADVIO IF INHALED	AZARDS IDENTIFICATIO VERVIEW LIGHT GRE CORROSIVI TH EFFECTS MAY BE HA IRRITATION MAY BE HA IRRITATION MAY BE HA IRRITATION MAY BE HA IRRITATION MAY CAUSI TORGAN NO DATA AN RONMENTAL NO DATA AN IRST-AID MEASURES CE CONSULT DOCTOR I IF BREATH BREATHIN PHYSICIAI N CONTACT WASH OFF PHYSICIAI CONTACT RINSE THO	Y POWDER E RMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT J. RMFUL IF SWALLOWED. RMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN J. E EYE IRRITATION. VALIABLE. VALIABLE. VALIABLE. A PHYSICIAN. SHOW THIS SAFETY DATA SHEET TO THE N ATTENDANCE. HED IN, MOVE PERSON INTO FRESH AIR. IF NOT IG GIVE ARTIFICIAL RESPIRATION CONSULT A N.

SECTION 5. FIRE AND EXPLOSION DATA

SUITABLE EXTINGUISHING MEDIA	USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY CHEMICAL OR CARBON DIOXIDE
SPECIAL PROTECTIVE	WEAR SELF CONTAINED BREATHING APPARATUS FOR FIRE
EQUIPMENT FOR FIRE-	FIGHTING IF NECESSARY.

SECTION 6. ACCIDENTAL R	ELEASE MEASURES
PERSONAL PRECAUTIONS	USE PERSONAL PROTECTIVE EQUIPMENT. AVOID DUST FORMATION. AVOID BREATHING DUST. ENSURE ADEQUATE VENTILATION.
ENVIRONMENTAL PRECAUTIONS	PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT LET PRODUCT ENTER DRAINS. DISCHARGE INTO THE ENVIRONMENT MUST BE AVOIDED.
METHODS FOR CLEANING UP	PICK UP AND ARRANGE DISPOSAL WITHOUT CREATING DUST. KEEP IN SUITABLE, CLOSED CONTAINERS FOR DISPOSAL.
SECTION 7. HANDLING AND	STORAGE
HANDLING	AVOID CONTACT WITH SKIN AND EYES. AVOID FORMATION OF DUST AND AEROSOLS.
STORAGE	STORE AT RT. KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-VENTILATED PLACE.
SECTION 8. EXPOSURE C	ONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION	WHERE RISK ASSESSMENT SHOWS AIR-PURIFYING RESPIRATORS ARE APPROPRIATE USE A DUST MASK TYPE N95 (US) OR TYPE P1 (EN 143) RESPIRATOR. USE RESPIRATORS AND COMPONENTS TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR CEN (EU).
HAND PROTECTION	HANDLE WITH GLOVES.
EYE PROTECTION	FACE SHIELD OR SAFETY GLASSES
SKIN AND BODY PROTECTION	CHOOSE BODY PROTECTION ACCORDING TO THE AMOUNT AND CONCENTRATION OF THE DANGEROUS SUBSTANCE AT THE WORK PLACE.
HYGIENE MEASURES	HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE. WASH HANDS BEFORE BREAKS AND AT THE END OF WORKDAY.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	White solid
PH	NO DATA AVAILABLE
BOILING POINT:	NO DATA AVAILABLE
MELTING POINT:	NO DATA AVAILABLE
DENSITY	NO DATA AVAILABLE
VAPOUR PRESSURE	NO DATA AVAILABLE
WATER SOLUBILITY	NO DATA AVAILABLE
DECOMPOSITION TEMP.	NO DATA AVAILABLE
VAPOUR DENSITY	NO DATA AVAILABLE
REFRACTIVE INDEX	NO DATA AVAILABLE
	PH BOILING POINT: MELTING POINT: DENSITY VAPOUR PRESSURE WATER SOLUBILITY DECOMPOSITION TEMP. VAPOUR DENSITY

SECTION 10. STABILITY AND REACTIVITY

TION IO. STABILII	I AND REACTIVITI
STABILITY	STABLE UNDER RECOMMENDED STORAGE CONDITIONS.
CONDITIONS TO AVOID	EXCESS HEAT
MATERIALS TO AVOID	STRONG OXIDIZING AGENTS, STRONG ACIDS, STRONG BASES
HAZARDOUS DECOMPOSITION PRODUCTS	CARBON OXIDES, NITROGEN OXIDES

ACUTE TOXICITY LD50 (ORAL) LD50 (DERMAL) SKIN CORROSION/IRRITATION SERIOUS EYE DAMAGE/EYE IRRITATION RESPIRATORY OR SKIN SENSITIZATION	NO DATA AVAILABLE NO DATA AVAILABLE NO DATA AVAILABLE NO DATA AVAILABLE NO DATA AVAILABLE
CARCINOGENICITY:	THIS PRODUCT IS NOT CLASSIFIED AS CARCINOGEN UNDER IARC, ACGIH, NTP. GROUP 3: NOT CLASSIFIABLE AS TO ITS CARCINOGENICITY TO HUMANS GROUP 3: NOT CLASSIFIABLE AS TO ITS CARCINOGENICITY TO HUMANS
REPRODUCTIVE TOXICITY : SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE	
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE POTENTIAL HEALTH EFFECTS	NO DATA AVAILABLE
INHALATION	MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION
INGESTION	MAY BE HARMFUL IF SWALLOWED.
SKIN	MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION.
EYES	MAY CAUSE EYE IRRITATION
SIGNS AND SYMPTOMS OF EXPOSURE	TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

SECTION 12.

ECOLOGICAL INFORMATION

ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY) NO DATA AVAILABLE

ECOTOXICITY EFFECTS NO DATA AVAILABLE

FURTHER INFORMATION ON ECOLOGY NO DATA AVAILABLE

SECTION 13. DISPOSAL CONSIDERATIONS

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION BURN IN A CHEMICAL INCINERATOR EQUIPED WITH AN AFTERBURNER AND SCRUBBER BUT EXERT EXTRA CARE IN IGNITING AS THIS MATERIAL IS HIGHLY FLAMMABLE. OBSERVE ALL FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS. CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL.

SECTION 14. TRANSPORT I

TRANSPORT INFORMATION

DOT REGULATIONS: PROPER SHIPPING NAME:	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S (1 <i>H</i> -Benzimidazole-5- sulfonyl chloride hydrochloride)
UN#:	UN3261
CLASS:	8
PACKING GROUP:	III
IATA REGULATIONS	
PROPER SHIPPING NAME:	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S (1 <i>H</i> -Benzimidazole-5- sulfonyl chloride hydrochloride)
UN# [.]	UN3261
CLASS:	8
PACKING GROUP:	III

SECTION 15. REGULATORY INFORMATION

U.S. REGULATIONS	
CERCLA SECTIONS 102A/103	NOT REGULATED
SARA TITLE III SECTION 302	NOT REGULATED
SARA TITLE III SECTION 304	NOT REGULATED
SARA TITLE III SECTION 311/31	12
R-PHRASE(S)	
ACUTE	NO DATA AVAILABLE
CHRONIC	NO DATA AVAILABLE
FIRE	NO DATA AVAILABLE
S-PHRASE(S)	
REACTIVE	NO DATA AVAILABLE
SUDDEN RELEASE	NO DATA AVAILABLE
SARA TITLE III SECTION 313	NOT REGULATED

OSHA PROCESS SAF 1910.119)	ETY(29 CFR	NOT REGULATED		
STATE REGULATIONS CALIFORNIA PROPOSITION 65		NONE LISTED		
NATIONAL INVENTORY STATUS U.S. INVENTORY (TSCA) :		LISTED		
EUROPEAN REGUL	ATIONS			
CAS-NO.	EC-NO.	INDEX-NO. 'L CHLORIDE HYDROCHLO	CLASSIFICATION	CONCENTRATION
1094350-38-5	-	-	C, R34	95
SIGNAL WORD		DANGER	0,101	<i>)5</i>
		H314 CAUSES SEVERE SK	IN BURNS AND EYE	
HAZARD STATEMEN	VT(S)	DAMAGE.		
		H317 MAY CAUSE AN ALL	ERGIC SKIN REACTIO	N.
		P280 WEAR PROTECTIVE GLOVES/PROTECTIVE		
		CLOTHING/EYE PROTECT		N.
		P305 + P351 + P338 IF IN E		
PRECAUTIONARY S	IATEMENI(S	CAUTIOUSLY WITH WATE REMOVE	ER FOR SEVERAL MINU	JTES.
		CONTACT LENSES, IF PRE	SENT AND FASY TO D	0
		CONTINUE RINSING	DENTAND EAST TO D	0.
HAZARD SYMBOLS		C CORROSIVE		
R-PHRASE(S)		R34 CAUSES BURNS.		
		S26 IN CASE OF CONTACT	Γ WITH EYES, RINSE	
S-PHRASE(S)		IMMEDIATELY WITH PLET	NTY OF WATER AND SI	EEK MEDICAL
		ADVICE.		

SECTION 16. OTHER INFORMATION

MSDS	LEGEND:	
MW:		MOLECULAR WEIGHT
MF:		MOLECULAR FORMULA
VOC:		VOLATILE ORGANIC COMPOUNDS
ACGIH	:	AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL
HYGIE	NISTS	
CAS:		CHEMICAL ABSTRACTS SERIVE REGISTRY NUMBER
OSHA:		OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PEL:		PERMISSIBLE EXPOSURE LIMIT (OSHA)
TLV:		THRESHOLD LIMIT VALUE (ACGIH)

IMPORTANT:

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 event shall **CII** 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 **CII** has been advised of the possibility of such damages.