CHEMICAL PRODUCT SAFETY DATA SHEET

Prepared in accordance with GB/T 16483 and GB/T 17519.

SECTION 1 Chemical product and company identification

Chinese name of chemical	护密效 **1B58LU - 30**
English name of chemical	**HumiSeal 1B58LU-30**
Manufacturer/Supplier	CHASE CORPORATION Zeta Drive Plant,
Address	201 Zeta Drive, Pittsburgh, Pennsylvania, 15238, United States,
Telephone	General Assistance: 1-866-932-0800,
e-mail	techsupport@humiseal.com,
Emergency telephone number	Chemtrec China: 4001-204937,

Recommended use and Limitations on use

Recommended use	Protective Coating for Printed Circuit Board
Limitations on use	No other uses are advised.
Issue date	05-20-2026
Revision date	05-20-2026
Supersedes date	05-20-2026

SECTION 2 Hazards identification

Emergency overview

May be ignited by heat, sparks or flames. May be fatal if swallowed and enters airways. May be harmful in contact with skin. May be harmful if swallowed. May cause damage to organs through prolonged or repeated exposure. May cause drowsiness or dizziness. Causes skin irritation. Possible reproductive hazard. Prolonged exposure may cause chronic effects. Dangerous for the environment if discharged into watercourses.

GHS hazard categories

Physical hazards	Flammable liquids	Category 1
Health hazards	Acute toxicity, oral	Category 5
	Acute toxicity, dermal	Category 5
	Skin corrosion/irritation	Category 2
	Reproductive toxicity	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 2
	Aspiration hazard	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2

Label elements

Pictograms



Signal word Danger

Hazard statement

H224	Extremely flammable liquid and vapor.
H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention

	Obtain, read and follow all safety instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe mist/vapors.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response

	IF SWALLOWED: Get medical help.
P301 + P316	IF SWALLOWED: Get emergency medical help immediately.
P331	Do NOT induce vomiting.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P318	IF exposed or concerned, get medical advice.
P319	Get medical help if you feel unwell.
P332 + P317	If skin irritation occurs: Get medical help.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use appropriate media to extinguish.
P391	Collect spillage.

Safety storage

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Physical and chemical hazards Extremely flammable liquid and vapor. The product is stable and non-reactive under normal conditions of use, storage and transport.

Health hazards Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. May be harmful in contact with skin. May be harmful if swallowed. May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful. Causes skin irritation. Direct contact with eyes may cause temporary irritation.

Environmental hazards Toxic to aquatic life with long lasting effects.

Supplemental information None.

SECTION 3 Composition/information on ingredients

Substance/mixture Mixture

Chemical name	Concentration (%)	CAS Number
甲基环己烷 Methylcyclohexane	50 - < 60	108-87-2
二甲苯 Xylene	10 - < 20	1330-20-7
乙苯 Ethylbenzene	3 - < 5	100-41-4
异丙醇 Isopropanol	3 - < 5	67-63-0
甲苯 Toluene	1 - < 3	108-88-3

SECTION 4 First aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms and health effects Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness or dizziness. Headache. Nausea, vomiting. Direct contact with eyes may cause temporary irritation. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

Personal protection for first-aid responders Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

Notes to physician Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

SECTION 5 Fire-fighting measures

Extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Extinguishing media to avoid Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Special fire fighting procedures In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Protection of fire-fighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

General fire hazards Extremely flammable liquid and vapor.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.

For emergency responders	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Ventilate closed spaces before entering them. Avoid breathing mist/vapors. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
Clean-up methods and materials and containment measures	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent product from entering drains. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Prevention of secondary hazards	Not available.

SECTION 7 Handling and storage

Handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist/vapors. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.
Storage	Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8 Exposure controls/personal protection

Exposure limits

Occupational Exposure Limits for Hazardous Agents in the Workplace, Chemical Hazardous Agents (GBZ 2.1-2019)

Components	Type	Value
Ethylbenzene (CAS 100-41-4)	PC-STEL	150 mg/m3
	PC-TWA	100 mg/m3
Isopropanol (CAS 67-63-0)	PC-STEL	700 mg/m3
	PC-TWA	350 mg/m3
Toluene (CAS 108-88-3)	PC-STEL	100 mg/m3
	PC-TWA	50 mg/m3
Xylene (CAS 1330-20-7)	PC-STEL	100 mg/m3
	PC-TWA	50 mg/m3

Biological limit values

China. Biological limit values for occupational exposure (WS/T 110 to 115, 239 to 243, and 264 to 267)

Components	Value	Determinant	Specimen	Sampling Time
Ethylbenzene (CAS 100-41-4)	0.8 g/g	Mandelic acid and phenylglyoxylic acid (MA and PGA)	Creatinine in urine	*
Toluene (CAS 108-88-3)	1.5 g/g	Hippuric acid	Creatinine in urine	*
	2 g/l	Hippuric acid	Urine	*
	5 mg/m3	Toluene	End-exhaled air	*
	20 mg/m3	Toluene	End-exhaled air	*
	11 mmol/l	Hippuric acid	Urine	*
	1 mol/mol	Hippuric acid	Creatinine in urine	*
Xylene (CAS 1330-20-7)	0.3 g/g	Methylhippuric acids	Creatinine in urine	*
	0.4 g/l	Methylhippuric acids	Urine	*

* - For sampling details, please see the source document.

ACGIH Biological Exposure Indices (BEI)

Components	Value	Determinant	Specimen	Sampling Time
Ethylbenzene (CAS 100-41-4)	150 mg/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
Isopropanol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*
Xylene (CAS 1330-20-7)	0.3 g/g	Methylhippuric acids	Creatinine in urine	*

* - For sampling details, please see the source document.

Exposure guidelines

China OELs. Occupational Exposure Limits for Hazardous Agents in the Workplace, Chemical Hazardous Agents (GBZ 2.1-2019): Skin designation

Toluene (CAS 108-88-3) — Can be absorbed through the skin.

Monitoring methods — Follow standard monitoring procedures.

Engineering measures — Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Personal protective equipment

Respiratory protection — Chemical respirator with organic vapor cartridge and full facepiece.

Hand protection — Wear appropriate chemical resistant gloves.

Eye protection — Chemical respirator with organic vapor cartridge and full facepiece.

Skin and body protection — Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Hygiene measures	Observe any medical surveillance requirements. When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9 Physical and chemical properties

Appearance	Clear.
Physical state	Liquid.
Form	Liquid.
Color	Nearly colorless
Odor	Aromatic
pH	Not available.
Melting point/freezing point	-195.88 °F (-126.6 °C) estimated
Boiling point, initial boiling point, and boiling range	Not available.
Flash point	23.0 °F (-5.0 °C) Closed Cup
Explosive limit - lower (%)	0.9 % estimated
Explosive limit - upper (%)	6.8 % estimated
Vapor pressure	48.46 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Density	0.80 g/cm3
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	482 °F (250 °C) estimated
Decomposition temperature	Not available.
Flammability (solid, gas)	Not applicable.
Other data	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	91.1 %
Specific gravity	0.8
VOC	728 g/l

SECTION 10 Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong acids. Strong oxidizing agents. Halogens.
Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11 Toxicological information

Acute toxicity	May be harmful in contact with skin. May be harmful if swallowed.

Components	Species	Test Results
Ethylbenzene (CAS 100-41-4)		
Acute		
Dermal		
LD50	Rabbit	15400 mg/kg
Inhalation		
Vapor		
LC50	Rat	17.63 mg/l, 4 hours
Oral		
LD50	Rat	3500 mg/kg
Isopropanol (CAS 67-63-0)		
Acute		
Inhalation		
LC50	Rat	51.05 mg/l, 8 Hours
Oral		
LD50	Rat	4710 mg/kg
Methylcyclohexane (CAS 108-87-2)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg, 24 Hours
Inhalation		
Vapor		
LC50	Rat	> 26.3 mg/l, 1 hours
Oral		
LD50	Rat	> 3200 mg/kg
Toluene (CAS 108-88-3)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg > 5000 mg/kg, 24 Hours
Inhalation		
Vapor		
LC50	Rat	> 20 mg/l, 4 hours
Oral		
LD50	Rat	> 5000 mg/kg 2.6 - 7.5 g/kg
Xylene (CAS 1330-20-7)		
Acute		
Dermal		
LD50	Rabbit	12130 mg/kg, 24 Hours
Oral		
LD50	Rat	3523 mg/kg

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.

Symptoms Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness or dizziness. Headache. Nausea, vomiting. Skin irritation. May cause redness and pain.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitizer This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity Risk of cancer cannot be excluded with prolonged exposure.

China OELs for hazardous agents in the workplace: Carcinogen Category

Ethyl benzene (CAS 100-41-4)	Possible human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethylbenzene (CAS 100-41-4)	2B Possibly carcinogenic to humans.
Toluene (CAS 108-88-3)	3 Not classifiable as to carcinogenicity to humans.
Xylene (CAS 1330-20-7)	3 Not classifiable as to carcinogenicity to humans.

Toxic to reproduction Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. Suspected of damaging fertility or the unborn child.

Specific target organ toxicity following single exposure May cause drowsiness or dizziness.

Specific target organ toxicity following repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects Prolonged inhalation may be harmful. May cause damage to organs through prolonged or repeated exposure. Prolonged exposure may cause chronic effects.

SECTION 12 Ecological information

Ecotoxicological data

Product		**Species**	**Test Results**
HumiSeal 1B58LU-30			
Aquatic			
Crustacea	EC50	Daphnia	90.0341 mg/l, 48 hours estimated
Fish	LC50	Fish	53.6138 mg/l, 96 hours estimated
Acute			
Crustacea	EC50	Daphnia	0.2664 mg/l, 48 hours estimated
Fish	LC50	Fish	1.4026 mg/l, 96 hours estimated
Components		**Species**	**Test Results**
Ethylbenzene (CAS 100-41-4)			
Aquatic			
Acute			
Crustacea	EC50	Daphnia	1.8 mg/l, 48 hours
		Water flea (Daphnia magna)	1.37 - 4.4 mg/l, 48 hours
Fish	LC50	Fish	4.2 mg/l, 96 hours
Isopropanol (CAS 67-63-0)			
Aquatic			
Acute			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours
Methylcyclohexane (CAS 108-87-2)			
Aquatic			
Acute			
Crustacea	EC50	Daphnia	0.326 mg/l, 48 hours
Fish	LC50	Fish	2.07 mg/l, 96 hours
Toluene (CAS 108-88-3)			
Aquatic			
Acute			
Crustacea	EC50	Invertebrates (Invertebrates)	3.78 mg/l, 48 hours
Fish	LC50	Fish	5.5 mg/l, 96 hours

Components		Species	Test Results
Xylene (CAS 1330-20-7)			
Aquatic			
Acute			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	6.702 - 10.032 mg/l, 96 hours

Ecotoxicity Toxic to aquatic life with long lasting effects.

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulation

Bioaccumulative potential

Octanol/water partition coefficient log Kow

Ethylbenzene (CAS 100-41-4)	3.15
Isopropanol (CAS 67-63-0)	0.05
Methylcyclohexane (CAS 108-87-2)	3.61
Toluene (CAS 108-88-3)	2.73

Mobility in soil No data available for this product.

Other hazardous effects The product contains volatile organic compounds which have a photochemical ozone creation potential.

SECTION 13 Disposal considerations

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Local disposal regulations Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14 Transport information

CNDG

UN number UN1263
UN proper shipping name PAINT (HumiSeal 1B58LU-60, HumiSeal Thinner 521)
Transport hazard class(es)
Class 3
Subsidiary hazard 3
Packing group II
Environmental hazards Yes
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number UN1263
UN proper shipping name PAINT
Transport hazard class(es)
Class 3
Subsidiary hazard -
Packing group II
Environmental hazards No.
ERG Code 3H
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Other information
Passenger and cargo aircraft Allowed with restrictions.
Cargo aircraft only Allowed with restrictions.

IMDG

UN number UN1263
UN proper shipping name PAINT

Transport hazard class(es)

Class	3
Subsidiary hazard	-
Packing group	II
Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-E
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.

CNDG; IATA; IMDG



Marine pollutant



SECTION 15 Regulatory information

Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Classification of occupational disease hazards

Ethylbenzene (CAS 100-41-4)
Isopropanol (CAS 67-63-0)
Toluene (CAS 108-88-3)
Xylene (CAS 1330-20-7)

Regulations on the Control over Safety of Dangerous Chemicals

Catalog of Hazardous Chemicals

2-Propanol (CAS 67-63-0)
Ethyl benzene (CAS 100-41-4)
Methyl benzene (CAS 108-88-3)
Methylcyclohexane (CAS 108-87-2)
Xylene, mixed isomers (CAS 1330-20-7)

List of Priority Management of Hazardous Chemicals

Toluene (CAS 108-88-3)

Identification of Major Hazard Installations of Dangerous Chemicals (GB 18218-2018)

Chemical name	CAS number	Threshold quantity (Tons)
Toluene	108-88-3	500

Provision on the Environmental Administration of New Chemical Substances

China Inventory of Existing Chemical Substances

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Other regulations

This safety data sheet conforms to the following laws, regulations and standards:
Measures for the Safe Use of Chemicals in Workplaces
General Rules for Preparation of Precautionary Labels for Chemicals (GB15258-2009)
Regulations on Labor Protection in Workplaces Where Toxic Products Are Used
Packing Symbol of Dangerous Goods(GB190-2009)
Regulations on the Control over Safety of Dangerous Chemicals
Safety Data Sheet for Chemical Products - Content and Order of Sections (GB/T 16483-2008)
Packing - Pictorial Marking for Handling of Goods (GB/T191-2008)

China. National Catalogue of Hazardous Wastes

Xylene (CAS 1330-20-7)

International regulations

Stockholm Convention

Not listed.

Rotterdam Convention

Not listed.

Montreal Protocol

Not listed.

Kyoto Protocol

Not listed.

Basel Convention

Not listed.

SECTION 16 Other information

References

EPA: AQUIRE database
GB6944-2012: Classification and Code of Dangerous Goods.
GB12268-2012: List of Dangerous Goods.
IARC Monographs. Overall Evaluation of Carcinogenicity
NLM: Hazardous Substances Data Base

Disclaimer

The information offered in this data sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication, however, no guarantee is made to its accuracy. This 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 other process. This material is intended for industrial use only. No warranty, expressed or implied is made.