

ASBURY FLUXMASTER

1281 Old Thorold Stone Road
Thorold, Ontario Canada L2V 3Y7
Phone: 905 826-2244 Fax: 905 826-4622

ASBURY DEGASER FOR ALUMINUM SAND AND PERMANENT MOLD OPERATIONS

CHARACTERISTICS: Degaser is a tablet chemical addition in tablet form used in the degassing of molten aluminum. Degaser improves mechanical properties; eliminates hydrogen gas porosity and removes non-metallics; eliminates hard spots and improves machineability. Because it is in tablet form, expensive equipment is not required. All that is needed is a simple plunging tool. Degaser also improves castability.

FORMULATIONS: Degaser tablets are available in the following formulations:

Degaser 185

Recommended for use with high conductivity aluminum or on high magnesium containing alloys.

Degaser 190

Provides an active degassing action as well as grain refinement.

Degaser 401

A very effective degassing and cleaning agent which should be applied below 1330⁰F (721⁰C) in order to take full advantage of the fumeless characteristics of the product.

Degaser 450

An effective degassing and cleaning agent which contains an inert filler which sinters together allowing the active ingredients to be dispersed at a slower rate.



Degaser 601

Combines the benefits of easy application and low smoke.

APPLICATIONS: Use only clean and preheated plunging tools. Moist tools can cause a metal explosion. Melt down the charge under a layer of flux to reduce oxidation and help reduce inclusions. When the temperature is below 1440⁰F (728⁰C) and falling, the surface dross should be pulled to one side. Plunge the required quantity of degaser slowly to the bottom of the melt using a preheated plunger.

Recommended Amounts for 100 lb. Heats

<u>Grade</u>	<u>Amount of Degaser</u>
185	4 oz.
190	4 oz.
401	4 oz.
450	6 oz.
→ 601	6 oz.

Because excessive metal heat causes hydrogen pickup, be sure that degassing is performed when the temperature is falling.

Because a gentle rolling action creates more efficient degassing than a turbulent action, it may be necessary to apply Degaser in two or more successive operations.

When working with aluminum-silicon alloys, the combined degassing-grain refining treatment should always be done before sodium modification.

Depending upon the melting conditions and charge materials, 2 to 3 lbs. of degaser per 2,000 lbs. of melt are generally sufficient. Slightly larger application rates are recommended for smaller heats.

Remove the wrapper completely before tablets are plunged. Never let the wrapper enter the melt as gas pickup and smoke will result.

Packaging: Arrangements available upon request

MSDS: 185 (023)
190 (024)
401 (025)
450 (026)
601 (027)

MATERIAL SAFETY DATA SHEET **(29 CFR PART 1910.1200 - HAZARD COMMUNICATION)**

ASBURY FLUXMASTER
1281 Old Thorold Stone Rd
Thorold, Ontario, L2V 3Y7
Phone: 905 826 2244

Emergency Telephone
CHEMTREC ...800-424-9300
Rev. Date: 10/16/07
MSDS NO. 027

SECTION 1 - IDENTIFICATION

MATERIAL/PRODUCT: **DEGASER 601**

SECTION 2 - HAZARDOUS COMPONENTS

<u>HAZARDOUS COMPONENT</u>	<u>CAS. NO.</u>	<u>%</u>	<u>OSHA PEL (mg/M3)</u>	<u>ACGIH TLV (mg/M3)</u>	<u>OTHER LIMITS</u>
Hexachloroethane	67-72-1	<30	10	9.7	NIOSH-lowest feasible limit
Sodium Nitrate**	7631-99-4	<30	15	10	N/A
Quartz***	14808-60-7	<5	0.1	0.1	N/A

** Oxidizer *** In as supplied form contains to respirable silica.

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING PT: * 367°F at 777mm Hg DENSITY: 2.1
VAPOR PRESSURE: *1 mm Hg at 32. 7°C EVAPORATION RATE: N/A
VAPOR DENSITY: * (air = 1) 8.2 SOLUBILITY IN WATER: Slight
APPEARANCE AND ODOR: <*> Black tablet, camphoraceous odor.

* For Hexachloroethane

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT: Non flammable FLAMMABLE LIMITS: Lel: N/A Uel: N/A
EXTINGUISHING MEDIA: Will not burn
SPECIAL FIREFIGHTING PROCEDURES: Self contained breathing apparatus should be used to prevent inhalation of toxic fumes.
UNUSUAL FIRE AND EXPLOSION HAZARDS: May evolve toxic fumes of chlorinated hydrocarbons. May react with alkalis to produce explosive chloroacetylenes.

SECTION 5 - REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY: Hot strong alkalis, finely divided metals (Fe, Zn, Al).
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS: In use, Aluminum Chloride, and traces of phosgene and fluorides.

SECTION 6 - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: INHALATION (YES) SKIN (YES) EYES (YES) INGESTION (YES)
 HEALTH HAZARDS: ACUTE During use, dust and fume may cause irritation of eyes, skin, nose and mucous membranes. Hxachloroethane may be absorbed by the skin.
 HEALTH HAZARDS: CHRONIC Hexachloroethane can cause CNS depression and kidney and liver damage. Prolonged or repeated inhalation of crystalline silica dusts can cause silicosis.
 TOXICITY DATA: N/A
 CARCINOGENICITY: NTP/IARC/OSHA/OTHER: Hexachloroethane is a suspect animal carcinogen (IARC) Determined to be a positive carcinogen in mice, but negative in rats (NCI). <*> Hexachloroethane has been identified by NTP as a substance reasonably anticipated to cause cancer.
 SIGNS AND SYMPTOMS OF EXPOSURE: Eye and skin irritation, coughing, headaches, dizziness, drowsiness and sore throat.
 MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing skin, respiratory, liver and kidney ailments.
 EMERGENCY AND FIRST AID PROCEDURES:
 INHALATION: Remove person to fresh air.
 SKIN: Wash with soap and water.
 EYES: Immediately flush with water for at least 15 minutes.
 INGESTION: Drink large quantities of water. DO NOT INDUCE VOMITING. Refer to physician immediately.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

SPILLS/LEAKS: Sweep up spillage. Avoid breathing dust and skin contact.
 WASTE DISPOSAL: Hexachloroethane is defined as a hazardous waste by EPA (U131). Dispose of in accordance with local, state, and federal regulations.
 HANDLING, USE AND STORAGE: Avoid skin and eye contact. Store in dry place below 150°F. Keep container closed when not in use.

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION: If TLV is exceeded use NIOSH approved respirator with organic vapor cartridge.
 VENTILATION: Recommended sufficient to maintain below TLV.
 GLOVES: Impervious e.g., butyl rubber. EYE PROTECTION: Safety glasses.
 OTHER N/A

N/A = Not Applicable
 N/K = Not Known
 <*> = Denotes change/addition

Please ensure that all persons coming into contact with this product are aware of the information contained in this MSDS sheet. Information presented herein has been compiled from sources considered to be reliable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. It is the user's responsibility to determine for himself the suitability of any material for a specific use and to adopt such safety precautions as may be necessary. If you need any further information from us to make the determinations which you must make to use this material safely, please contact the above named preparer.

ASBURY FLUXMASTER
SUPPLIER NOTIFICATION
DEGASER* 601

This product contains materials found in the DOT Hazardous Materials Table 172.101 and is regulated for land transportation. The proper shipping designation is as follows:

"SODIUM NITRATE, CLASS 5.1, UN # 1498, PGIII"

The above listed product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. The chemical(s) is/are listed below.

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>STANDARD WEIGHT %</u>
Hexachloroethane	67-72-1	28

This notification is attached to the product Material Safety Data Sheet (MSDS) and must not be detached from the MSDS. Any copying or redistribution of the MSDS shall include copying and redistribution of this notice attached to copies of the MSDS subsequently redistributed.

The weight percentages given represent the upper bound concentration level for that listed chemical based upon our knowledge of the raw materials comprising this product.

* Registered Trademark