

MATERIAL SAFETY DATA SHEET

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SECTION I - PRODUCT INFORMATION:

PRODUCT IDENTIFIER: DG-GENERATOR NO. 8, 10, 11

MANUFACTURER: ATD - ABBAUSYSTEME GmbH
ADDRESS: PREPARER Dpl. Ing. JÖRG ROHDE
P.O. BOX 10 13 37
40004 DUSSELDORF
GERMANYAUTHORIZED SELLING AGENCY:
JBC INDUSTRIES
57B INDUSTRIAL ROAD
BERKELEY HEIGHTS, NJ 07922
PHONE: 908-665-0404
800-522-0256BAM REGISTRATION NO. PT, 0140, PT, 0141, PT, 0142
DG-GENERATORS ARE INTENDED FOR USE IN ATD-PRESSURE-GAS-TUBES ONLY ACCORDING TO VALID OPERATING INSTRUCTIONS OF THE MANUFACTURER.

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL CHARACTERIZATION:

MIXTURE BASED ON POTASSIUM PERCHLORATE, AMMONIUM OXALATE, AND SALICYLIC ACID

HAZARDOUS INGREDIENTS	WGHT %	CAS-NO	LABEL	RECOMMENDATIONS
POTASSIUM PERCHLORATE	61	778-74-7	O,Xn	9,22
AMMONIUM OXALATE	29	6009-70-7	Xn	21/22
SALICYLIC ACID	9	69-72-7	Xn	22, 36/38

CLASS OF HAZARD: SPECIAL RECOMMENDATIONS FOR PEOPLE AND ENVIRONMENT
O OXIDIZING AGENT R9 DANGER OF EXPLOSION WHEN IN CONTACT WITH FLAMMABLE SUBSTANCES
Xn HARMFUL R22 HARMFUL IF SWALLOWED
R21/22 HARMFUL, AVOID SKIN CONTACT, DO NOT SWALLOW
R36/38 IRRITATING EFFECT ON EYES, SKIN

SECTION III - PHYSICAL DATA

PHYSICAL STATE: CRYSTAL MIXTURE BULK DENSITY: 800 KG/M³
APPEARANCE & ODOR: WHITE COLOR, WEAK SMELL pH VALUE: 4.1 (5 G/L H₂O) 20° C
FLASH-POINT: NON-FLAMMABLE
FIRING TEMP. NON-IGNITABLE UNDER ATMOSPHERIC PRESSURE
EXPLOSIVE LIMIT LOWER: — UPPER: —
THERMAL DECOMPOSITION: >200° C (392° F)
HAZARDOUS DECOMPOSITION PRODUCTS: CO, NH₃
HAZARDOUS REACTIONS: —

SECTION IV - TRANSPORT

GGVSee/IMDG-CODE: 122/1.4 S UN No. 0432
GGVE/GGS: K1, 1 ZIFF. 47 0432 ARTICLES PYROTECHNIC 1.4 S
RID/ADR: K1, 1 ZIFF. 47, 0432 ARTICLES PYROTECHNIC 1.4 S

SECTION V - PREVENTIVE MEASURES; STORAGE & HANDLING

TECHNICAL PREVENTIVE MEASURES

STORAGE: VERTICALLY, HEAD UPWORDS, COOL & DRY
TEMPERATURE: <25° C (75°F)
HUMIDITY: <60%

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ONLY IN CASE OF CONTACT WITH MIXTURE:

PERSONAL PROTECTION EQUIPMENT:

RESPIRATORY PROTECTION: DUST PROTECTION MASK
EYE PROTECTION: SAFETY GOGGLES OR GLASSES
SKIN PROTECTION: PROTECTIVE GLOVES

WORKING HYGIENE:

DIRTY SKIN TO BE WASHED UP THOROUGHLY WITH WATER
CLOTHES TO THE CLEANER'S

PROTECTION AGAINST FIRE/EXPLOSION:

DO NOT MIX WITH FLAMMABLE SUBSTANCES
R-8 DANGER OF FIRE IN CASE OF CONTACT WITH FLAMMABLE SUBSTANCE

DISPOSAL PROCEDURE:

SWEEP UP PRODUCT DRY, DO NOT RINSE WITH WATER

SECTION VI - TOXICOLOGICAL PROPERTIES

LD₅₀ - VALUES:

<u>COMPONENT</u>	<u>APPL.</u>	<u>VALUE</u>	<u>SPECIES</u>
POTASSIUM PERCHLORATE	ORAL	1090 MG/KG	RAT
POTASSIUM PERCHLORATE	S.C.	500 MG/KG	MOUSE
SALICYLIC ACID	ORAL	891 MG/KG	RAT

PRIMARY IRRITATING EFFECT:

BREATHING DUST: IRRITATING EFFECT IN BREATHING APPARATUS
SKIN CONTACT: IRRITATING EFFECT
EYES CONTACT: IRRITATING EFFECT
SWALLOWING: IRRITATING EFFECT AND POSSIBLE CAUSTIC EFFECT

SECTION VII - FIRST AID MEASURES

AFTER INHALING:

AFTER INHALING DECOMPOSITION GASES (CARBON MONOXIDE, AMMONIA) CONSULT A DOCTOR

AFTER SKIN CONTACT:

CLEAN CONTAMINATED PARTS READILY WITH WATER

AFTER EYE CONTACT:

CLEAN WITH PLENTY OF WATER; CONSULT AN EYE DOCTOR

AFTER INGESTION:

DRINK PLENTY OF WATER OR MILK, INDUCE VOMITING, CONSULT A DOCTOR. IF NEEDED, PUMP STOMACH AND ADMINISTER ACTIVE CHARCOAL AND SODIUM SULPHATE. CONTROL CIRCULATION AND ELECTROLYTIC STABILITY.

THE ABOVE INFORMATION IS GIVEN ACCORDING TO OUR KNOWLEDGE TODAY. IT IS GIVEN TO DESCRIBE THE PRODUCT FOR THE ORGANIZATION OF SAFETY MEASURES. IT IS NOT AN ASSURANCE OF THE PROPERTIES OF THE DESCRIBED PRODUCT.