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SAFETY DATA SHEET

SECTION 1. CHEMICAL IDENTIFICATION

| | |
|---------------------------------|---|
| CATALOG #: | 47399 |
| NAME: | 1-Chlorobutane |
| SYNONYMS: | Butyl chloride <i>n</i> -Butyl chloride |
| 24 HOUR EMERGENCY TELEPHONE: | (800) 535-5053(USA) 352-323-3500 (INTERNATIONAL) |
| TO REQUEST AN MSDS: | (800) 869-9290 |
| CUSTOMER SERVICE: | (630) 766-2112 |

SECTION 2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS)

FLAMMABLE LIQUIDS (CATEGORY 2), H225
ASPIRATION HAZARD (CATEGORY 1), H304
SHORT-TERM (ACUTE) AQUATIC HAZARD (CATEGORY 3), H402
LONG-TERM (CHRONIC) AQUATIC HAZARD (CATEGORY 3), H412

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

**GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS
PICTOGRAM**



SIGNAL WORD DANGER

HAZARD STATEMENT(S)

H225 HIGHLY FLAMMABLE LIQUID AND VAPOUR.
H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.
H412 HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

PRECAUTIONARY STATEMENT(S)

P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES.
NO SMOKING.
P233 KEEP CONTAINER TIGHTLY CLOSED.
P240 GROUND/BOND CONTAINER AND RECEIVING EQUIPMENT.
P241 USE EXPLOSION-PROOF ELECTRICAL/ VENTILATING/ LIGHTING
EQUIPMENT.
P242 USE ONLY NON-SPARKING TOOLS.
P243 TAKE PRECAUTIONARY MEASURES AGAINST STATIC
DISCHARGE.
P273 AVOID RELEASE TO THE ENVIRONMENT.
P280 WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE
PROTECTION/ FACE PROTECTION.
P301 + P310 IF SWALLOWED: IMMEDIATELY CALL A POISON
CENTER/DOCTOR.
P303 + P361 + P353 IF ON SKIN (OR HAIR): TAKE OFF IMMEDIATELY ALL
CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER.
P331 DO NOT INDUCE VOMITING.
P370 + P378 IN CASE OF FIRE: USE DRY SAND, DRY CHEMICAL OR ALCOHOL-
RESISTANT FOAM TO EXTINGUISH.
P403 + P235 STORE IN A WELL-VENTILATED PLACE. KEEP COOL.
P405 STORE LOCKED UP.
P501 DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED WASTE
DISPOSAL PLANT.

**HAZARDS NOT
OTHERWISE
CLASSIFIED (HNOC)
OR NOT COVERED
BY GHS** NONE

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MF: C₄H₉Cl
MW: 92.57
CAS-NO. 109-69-3
PURITY: ≥ 99% (GC)

HAZARDOUS COMPONENTS

| COMPONENT | CLASSIFICATION | CONCENTRATION |
|-----------------------|--|---------------|
| 1-Chlorobutane | | |
| | FLAM. LIQ. 2; ASP. TOX. 1; AQUATIC ACUTE 3; AQUATIC CHRONIC 3; H225, H304, H402, H412 | <= 100% |

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

SECTION 4. FIRST-AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

GENERAL ADVICE SHOW THIS MATERIAL SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE.

IF INHALED AFTER INHALATION: FRESH AIR.

IN CASE OF SKIN CONTACT IN CASE OF SKIN CONTACT: TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/ SHOWER. CONSULT A PHYSICIAN.

IN CASE OF EYE CONTACT AFTER EYE CONTACT: RINSE OUT WITH PLENTY OF WATER. REMOVE CONTACT LENSES.

IF SWALLOWED AFTER SWALLOWING: CAUTION IF VICTIM VOMITS. RISK OF ASPIRATION! KEEP AIRWAYS FREE. PULMONARY FAILURE POSSIBLE AFTER ASPIRATION OF VOMIT. CALL A PHYSICIAN IMMEDIATELY.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED THE MOST IMPORTANT KNOWN SYMPTOMS AND EFFECTS ARE DESCRIBED IN THE LABELLING (SEE SECTION 2.2) AND/OR IN SECTION 11.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

NO DATA AVAILABLE

SECTION 5. FIRE AND EXPLOSION DATA

EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA
CARBON DIOXIDE (CO₂) FOAM DRY POWDER

UNSUITABLE EXTINGUISHING MEDIA
FOR THIS SUBSTANCE/MIXTURE NO LIMITATIONS OF
EXTINGUISHING AGENTS ARE GIVEN.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

CARBON OXIDES
HYDROGEN CHLORIDE GAS
COMBUSTIBLE.
PAY ATTENTION TO FLASHBACK.
VAPORS ARE HEAVIER THAN AIR AND MAY SPREAD ALONG FLOORS.
DEVELOPMENT OF HAZARDOUS COMBUSTION GASES OR VAPOURS POSSIBLE IN THE EVENT OF FIRE.
FORMS EXPLOSIVE MIXTURES WITH AIR AT AMBIENT TEMPERATURES.

ADVICE FOR FIREFIGHTERS

IN THE EVENT OF FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS.

FURTHER INFORMATION

REMOVE CONTAINER FROM DANGER ZONE AND COOL WITH WATER. SUPPRESS (KNOCK DOWN) GASES/VAPORS/MISTS WITH A WATER SPRAY JET. PREVENT FIRE EXTINGUISHING WATER FROM CONTAMINATING SURFACE WATER OR THE GROUND WATER SYSTEM.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

ADVICE FOR NON-EMERGENCY PERSONNEL: DO NOT BREATHE VAPORS, AEROSOLS. AVOID SUBSTANCE CONTACT. ENSURE ADEQUATE VENTILATION. KEEP AWAY FROM HEAT AND SOURCES OF IGNITION.
EVACUATE THE DANGER AREA, OBSERVE EMERGENCY PROCEDURES, CONSULT AN EXPERT.

FOR PERSONAL PROTECTION SEE SECTION 8.

| | |
|--|--|
| ENVIRONMENTAL PRECAUTIONS | DO NOT LET PRODUCT ENTER DRAINS. RISK OF EXPLOSION. |
| METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP | COVER DRAINS. COLLECT, BIND, AND PUMP OFF SPILLS. OBSERVE POSSIBLE MATERIAL RESTRICTIONS (SEE SECTIONS 7 AND 10). DISPOSE OF PROPERLY. CLEAN UP AFFECTED AREA. |
| REFERENCE TO OTHER SECTIONS | FOR DISPOSAL SEE SECTION 13. |

SECTION 7. HANDLING AND STORAGE

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|---|---|
| PRECAUTIONS FOR SAFE HANDLING | KEEP AWAY FROM OPEN FLAMES, HOT SURFACES AND SOURCES OF IGNITION. TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE. CHANGE CONTAMINATED CLOTHING. WASH HANDS AFTER WORKING WITH SUBSTANCE. FOR PRECAUTIONS SEE SECTION 2.2. |
| CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES | KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-VENTILATED PLACE. KEEP AWAY FROM HEAT AND SOURCES OF IGNITION. STORAGE CLASS (TRGS 510): 3: FLAMMABLE LIQUIDS Store at 2 - 8 °C |
| SPECIFIC END USE(S) | APART FROM THE USES MENTIONED IN SECTION 1.2 NO OTHER SPECIFIC USES ARE STIPULATED. |

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

CONTAINS NO SUBSTANCES WITH OCCUPATIONAL EXPOSURE LIMIT VALUES.

EXPOSURE CONTROLS

| | |
|----------------------------------|--|
| APPROPRIATE ENGINEERING CONTROLS | CHANGE CONTAMINATED CLOTHING. WASH HANDS AFTER WORKING WITH SUBSTANCE. |
|----------------------------------|--|

PERSONAL PROTECTIVE EQUIPMENT

| | |
|-----------------------------------|--|
| EYE/FACE PROTECTION | USE EQUIPMENT FOR EYE PROTECTION TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR EN 166(EU). SAFETY GLASSES |
| SKIN PROTECTION | HANDLE WITH GLOVES. GLOVES MUST BE INSPECTED PRIOR TO USE. USE PROPER GLOVE REMOVAL TECHNIQUE (WITHOUT TOUCHING GLOVE'S OUTER SURFACE) TO AVOID SKIN CONTACT WITH THIS PRODUCT. DISPOSE OF CONTAMINATED GLOVES AFTER USE IN ACCORDANCE WITH APPLICABLE LAWS AND GOOD LABORATORY PRACTICES. WASH AND DRY HANDS. |
| BODY PROTECTION | FLAME RETARDANT ANTISTATIC PROTECTIVE CLOTHING. |
| RESPIRATORY PROTECTION | REQUIRED WHEN VAPOURS/AEROSOLS ARE GENERATED. OUR RECOMMENDATIONS ON FILTERING RESPIRATORY PROTECTION ARE BASED ON THE FOLLOWING STANDARDS: DIN EN 143, DIN 14387 AND OTHER ACCOMPANYING STANDARDS RELATING TO THE USED RESPIRATORY PROTECTION SYSTEM. |
| CONTROL OF ENVIRONMENTAL EXPOSURE | DO NOT LET PRODUCT ENTER DRAINS. RISK OF EXPLOSION. |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---|
| APPEARANCE | Clear, colorless liquid |
| ODOUR | STINGING |
| ODOUR THRESHOLD | NO DATA AVAILABLE |
| PH | NO DATA AVAILABLE |
| MELTING | -123 to -124 °C |
| POINT/FREEZING POINT | |
| INITIAL BOILING POINT AND BOILING RANGE | 77 - 78 °C |
| FLASH POINT | -13 °C |
| EVAPOURATION RATE | NO DATA AVAILABLE |
| FLAMMABILITY (SOLID, GAS) | NO DATA AVAILABLE |
| UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS | UPPER EXPLOSION LIMIT: 10.1 %(V) LOWER EXPLOSION LIMIT: 1.8 %(V) |
| VAPOUR PRESSURE | 120.6 HPA AT 20 °C - OECD TEST GUIDELINE 104 |
| VAPOUR DENSITY | 3.2 - (AIR = 1.0) |
| RELATIVE DENSITY | 0.89 |
| WATER SOLUBILITY | CA.0.11 G/L AT 20 °C - OECD TEST GUIDELINE 105 - PARTLY SOLUBLE |

| | |
|--|---|
| PARTITION COEFFICIENT: N- OCTANOL/WATER | LOG POW: 2.66 AT 20 C - OECD TEST GUIDELINE 107 - BIOACCUMULATION IS NOT EXPECTED. |
| AUTO-IGNITION TEMPERATURE | 245 C AT 1,013.25 HPA |
| DECOMPOSITION TEMPERATURE | NO DATA AVAILABLE |
| VISCOSITY | NO DATA AVAILABLE |
| EXPLOSIVE PROPERTIES | NO DATA AVAILABLE |
| OXIDIZING PROPERTIES | NO DATA AVAILABLE |

OTHER SAFETY INFORMATION

| | |
|---------------------------|---|
| SURFACE TENSION | 63.2 MN/M AT 0.1G/L AT 20 C - OECD TEST GUIDELINE 115 |
| RELATIVE VAPOR DENSITY | 3.2 - (AIR = 1.0) |

SECTION 10. STABILITY AND REACTIVITY

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|---|---|
| REACTIVITY | VAPORS MAY FORM EXPLOSIVE MIXTURE WITH AIR. |
| CHEMICAL STABILITY | THE PRODUCT IS CHEMICALLY STABLE UNDER STANDARD AMBIENT CONDITIONS. |
| POSSIBILITY OF HAZARDOUS REACTIONS | RISK OF EXPLOSION WITH: ALKALI METALS ALKALINE EARTH METALS SODIUM AMIDE RISK OF IGNITION OR FORMATION OF INFLAMMABLE GASES OR VAPOURS WITH: OXIDIZING AGENTS POWDERED LIGHT METALS |
| CONDITIONS TO AVOID | WARMING. |
| INCOMPATIBLE MATERIALS | VARIOUS PLASTICS, LIGHT METALS |
| HAZARDOUS DECOMPOSITION PRODUCTS | IN THE EVENT OF FIRE: SEE SECTION 5 |

SECTION 11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

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|--|--|
| ACUTE TOXICITY | LD50 ORAL - RAT - 2,200 MG/KG REMARKS: (RTECS) LC50 INHALATION - RAT - MALE AND FEMALE - 4 H - > 7.74 MG/L (OECD TEST GUIDELINE 403) DERMAL: NO DATA AVAILABLE |
| SKIN CORROSION/IRRITATION | SKIN - RABBIT RESULT: NO SKIN IRRITATION - 4 H (OECD TEST GUIDELINE 404) |
| SERIOUS EYE DAMAGE/EYE IRRITATION | EYES - RABBIT RESULT: NO EYE IRRITATION (OECD TEST GUIDELINE 405) |
| RESPIRATORY OR SKIN SENSITISATION | BUEHLER TEST - GUINEA PIG RESULT: NEGATIVE (OECD TEST GUIDELINE 406) |
| GERM CELL MUTAGENICITY | TEST TYPE: AMES TEST TEST SYSTEM: SALMONELLA TYPHIMURIUM METABOLIC ACTIVATION: WITH AND WITHOUT METABOLIC ACTIVATION METHOD: OECD TEST GUIDELINE 471 RESULT: NEGATIVE TEST TYPE: CHROMOSOME ABERRATION TEST IN VITRO TEST SYSTEM: CHINESE HAMSTER CELLS METABOLIC ACTIVATION: WITH AND WITHOUT METABOLIC ACTIVATION METHOD: OECD TEST GUIDELINE 473 RESULT: NEGATIVE TEST TYPE: IN VITRO MAMMALIAN CELL GENE MUTATION TEST TEST SYSTEM: MOUSE LYMPHOMA CELLS METABOLIC ACTIVATION: WITH AND WITHOUT METABOLIC ACTIVATION METHOD: OECD TEST GUIDELINE 476 RESULT: NEGATIVE TEST TYPE: MICRONUCLEUS TEST SPECIES: MOUSE CELL TYPE: BONE MARROW APPLICATION ROUTE: INTRAPERITONEAL METHOD: OECD TEST GUIDELINE 474 RESULT: NEGATIVE |
| CARCINOGENICITY | ANIMAL TESTING DID NOT SHOW ANY CARCINOGENIC EFFECTS. IARC: NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED HUMAN CARCINOGEN BY IARC. |

| | |
|---|--|
| NTP: | NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A KNOWN OR ANTICIPATED CARCINOGEN BY NTP. |
| OSHA: | NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS ON OSHA S LIST OF REGULATED CARCINOGENS. |
| REPRODUCTIVE TOXICITY | NO TOXICITY TO REPRODUCTION |
| SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE | NO DATA AVAILABLE |
| SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE | NO DATA AVAILABLE |
| ASPIRATION HAZARD | MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. |
| ADDITIONAL INFORMATION | RTECS: EJ6300000 REPEATED DOSE TOXICITY - RAT - MALE AND FEMALE - ORAL - 90 DAYS - NOAEL (NO OBSERVED ADVERSE EFFECT LEVEL) - 120 MG/KG - LOAEL (LOWEST OBSERVED ADVERSE EFFECT LEVEL) - 250 MG/KG TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED. |

SECTION 12. ECOLOGICAL INFORMATION

TOXICITY

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| TOXICITY TO FISH | SEMI-STATIC TEST LC50 - BRACHYDANIO RERIO (ZEBRAFISH) - CA. 75.6 MG/L - 96 H (OECD TEST GUIDELINE 203) |
| TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES | STATIC TEST EC50 - DAPHNIA MAGNA (WATER FLEA) - 452 MG/L - 48 H (REGULATION (EC) NO. 440/2008, ANNEX, C.2) |
| TOXICITY TO ALGAE | STATIC TEST ERC50 - DESMODESMUS SUBSPICATUS (GREEN ALGAE) - > 450 MG/L - 72 H (REGULATION (EC) NO. 440/2008, ANNEX, C.3) |
| TOXICITY TO BACTERIA | STATIC TEST EC50 - ACTIVATED SLUDGE - > 1,000 MG/L - 3 H (OECD TEST GUIDELINE 209) |

PERSISTENCE AND DEGRADABILITY

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|---|---|
| BIODEGRADABILITY | AEROBIC - EXPOSURE TIME 28 D RESULT: 47.2 % - NOT READILY BIODEGRADABLE. (ISO 10708) |
| BIOACCUMULATIVE POTENTIAL | |
| BIOACCUMULATION | CYPRINUS CARPIO (CARP) - 6 WEEKS AT 25 C - 0.5 MG/L(1-CHLOROBUTANE) BIOCONCENTRATION FACTOR (BCF): 7.6 - 21 (OECD TEST GUIDELINE 305C) |
| MOBILITY IN SOIL | NO DATA AVAILABLE |
| RESULTS OF PBT AND VPVB ASSESSMENT | PBT/VPVB ASSESSMENT NOT AVAILABLE AS CHEMICAL SAFETY ASSESSMENT NOT REQUIRED/NOT CONDUCTED. |
| OTHER ADVERSE EFFECTS | NO DATA AVAILABLE |

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

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|-------------------------------|--|
| PRODUCT | WASTE MATERIAL MUST BE DISPOSED OF IN ACCORDANCE WITH THE NATIONAL AND LOCAL REGULATIONS. LEAVE CHEMICALS IN ORIGINAL CONTAINERS. NO MIXING WITH OTHER WASTE. |
| CONTAMINATED PACKAGING | DISPOSE OF AS UNUSED PRODUCT. |

SECTION 14. TRANSPORT INFORMATION

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|---------------------------|---------------|
| DOT (US) | |
| PROPER SHIPPING NAME: | CHLOROBUTANES |
| UN NUMBER: | 1127 |
| CLASS: | 3 |
| PACKING GROUP: | II |
| REPORTABLE QUANTITY(RQ): | |
| POISON INHALATION HAZARD: | NO |

| | |
|-----------------------|---------------|
| IMDG | |
| PROPER SHIPPING NAME: | CHLOROBUTANES |

UN NUMBER: 1127
CLASS: 3
PACKING GROUP: II
EMS-NO: F-E, S-D

IATA

PROPER SHIPPING NAME: CHLOROBUTANES
UN NUMBER: 1127
CLASS: 3
PACKING GROUP: II

SECTION 15. REGULATORY INFORMATION

SARA 302 COMPONENTS THIS MATERIAL DOES NOT CONTAIN ANY COMPONENTS WITH A SECTION 302 EHS TPQ.

SARA 313 COMPONENTS THIS MATERIAL DOES NOT CONTAIN ANY CHEMICAL COMPONENTS WITH KNOWN CAS NUMBERS THAT EXCEED THE THRESHOLD (DE MINIMIS) REPORTING LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313.

SARA 311/312 HAZARDS FIRE HAZARD, CHRONIC HEALTH HAZARD

MASSACHUSETTS RIGHT TO KNOW COMPONENTS

NO COMPONENTS ARE SUBJECT TO THE MASSACHUSETTS RIGHT TO KNOW ACT.

SECTION 16. OTHER INFORMATION

FULL TEXT OF H-STATEMENTS REFERRED TO UNDER SECTIONS 2 AND 3.

H225 HIGHLY FLAMMABLE LIQUID AND VAPOUR.
H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.
H412 HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

MSDS LEGEND

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

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