

Material Safety Data Sheet for Transportation of Dangerous Goods

OSRAM SOX® Low Pressure Sodium Vapour Lamps

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Document status: released
Version: 2.0
Issue date: 22 September 2011
Supersedes date:

This document gives information about risks during shipment, it is not a safety instruction for the use!

The word “lamp” in this document means “OSRAM SOX®” low pressure sodium vapour lamps”.

Description

The lamp contains sodium in very small amounts due to technical reasons (e.g. light colour). Low-pressure sodium vapour lamps are available in wattages from 35 to 180 W.

Sodium:

CAS Nr.: 7440-23-5
It can generate a high degree of heat when exposed to small amounts of water. It is water reactive.

Sodium amount in OSRAM SOX® lamp family

Wattage	sodium [g]
35 W	1,3
55 W	1,3
90 W	1,5
135 W	2,2
180 W	2,9

Dangerous goods classification

DG classification of these lamp types depends on mode of transport and contained material as listed above.

Mode of transport	Classification	Proper Shipping Name
Ground	UN3363 ¹⁾	Dangerous Goods in Apparatus
Sea	UN3363 ²⁾	Dangerous Goods in Apparatus
Air	UN1428	Sodium

¹⁾ not subject to ADR. In non-ADR countries, Approval of national competent authority of country may be required

²⁾ Approval of national competent authority of country of origin required

Risks of fire or explosion

Broken lamps can present a danger of significant heat generation in the presence of small amounts of water.

Immediate hazards to health

Lamp is a manufactured article in safe package. There are no immediate hazards to health as long as lamps are undamaged in original packaging.

Immediate precautions to be taken in the event of an accident or incident

In case of lamp breakage following procedure is recommended to avoid health risks:

- Keep the broken pieces dry from water!
- Be careful not to cut yourself on shards of glass.
- Carefully remove all the bits of the broken lamp by using disposable gloves to avoid contact with the skin.
- Dispose of both cracked and non-functioning lamps correctly.

Immediate methods for handling fire

Use extinguishing agent suitable for type of surrounding fire. Don't use water extinguisher.

Initial methods for handling spills or leaks in the absence of a fire

None.

Lamp is a manufactured article in safe package.

No spills or leaks possible without the event of an accident or incident (see above).

Preliminary first aid measures

Respiratory Protection: None needed during lamp operation. Dust mask and goggles should be used when breaking lamps for disposal.

Ventilation: Avoid inhalation of dust when handling broken lamps. Gloves should be worn when breaking lamps to prevent cuts from broken glass.

Disposal

In the case of disposal of discarded lamps, care has to be taken in the method of handling to avoid risks from fire, or harm from glass. The following method is recommended, subject to applicability of Federal, State and local regulations: The lamps, no more than 20 at a time, have to be broken into small pieces in a dry container of ample capacity. This should be done in an open area. Goggles and dust masks should be worn to prevent the possibility of injury from flying glass. The broken parts should then be covered with water with the aid of a hose. The operator should stand at a few meters distance. After a few minutes when the chemical reaction has stopped and the sodium is rendered harmless. The contents of the container can be disposed of in accordance with applicable law.

Subject to change without notice!