



Vljxugr uxnrydqnm e lwxp hqrp
V dln#kdggdaj #z lwk#e lwxp hq
P duxv#Vs l hjo

8. međunarodna konferencija ASFALTN KOLONICI 2023. 8th International conference ASPHALT PAVEMENTS 2023
Opatija 11. – 12. 05. 2023.





Content

- 1 OMV Bitumen Newsletter – Safe handling of bitumen**
- 2 Relevant information from the Bitumen Industry – Eurobitume**
- 3 Bitumen offloading – video**
- 4 Conclusion – main take aways**

If you can't do it safe, don't do it at all.

OMV Bitumen Newsletter – Safe handling of bitumen



HSSE: ZERO Harm - NO Losses

Working safely with bitumen



Health, process and workplace safety, safety & resilience and protection of the environment are top priorities for OMV.

Various examples of incidents.

Examples for incidents related with bitumen handling

Falling from height

- Taking sample from man lid
- Poor venting of trailer / confined space
- Risk awareness H₂S
- Personal Protective Equipment (PPE)
- Unloading, sampling taking process



House keeping / Unloading area

- Be aware about surrounding area
- Proper PPE
- Focus on current activity
- Proper hose / clogged pipeline?



Unloading hose



Improper hose connection

- Focus on current activity
- Proper PPE
- Proper unloading process
- Risk awareness





Improve safety by proper awareness and training

Advice / Recommendation for bitumen receiver

- The recipient must instruct the truck driver in plant-specific instructions and in safety and emergency regulations.
- Recipient employees must be trained in the following areas:
 - Safe handling of bitumen
 - Storage of bitumen
 - Delivery of bitumen
 - First Aid
- Personnel monitoring should monitor the discharging process
 - Don't forget to wear the correct PPE (First Aid!)
- The unloading point must be
 - Clean, tidy, free of obstacles
 - Proper illumination



Important documents for safe handling of bitumen

Relevant information from Eurobitume (Bitumen Industry)



Personal protective equipment

SIGURNO RUKO

Glavne opasnosti:

- Zbog visoke temperature bitumena...
- Bitumen može izazvati opekotine...
- Bitumen može izazvati iritaciju kože...

GLAVNE OPASNOSTI

• Zbog visoke temperature bitumena...

SIGURNOSNE

• Nositi odgovarajuću zaštitnu opremu...

OSOBNJE SIGURNOSTI

• Prilikom rukovanja bitumenom...

PRVA POMOĆ

• Opekotine od bitumena...

ZDRAVSTVENA OSKRIB

• Opekotine od bitumena...

ZAPALJENJE

• Bitumen je zapaljiv...

TELEFONSKI BROJEVI

• 112 (hitna pomoć)

Standard OMV PPE					
Bitumen, PMB					
Sulfur			EN ISO 11612 EN 1149-5 EN 13034 		
Standard (EN)	EN 397	EN 166	EN ISO 11612 A1, B1, C1 EN 1149-5 recommended: EN 13034-6	EN ISO 20345 S3	EN 388, EN 407, EN 374

OD H₂S VANJA

TI OG H₂S?

PRVA POMOĆ

DODATNE INFORMACIJE

OSOBNA ZAŠTITA

VISTA OPAZIVOSTI

TRJET

VATRA

OSOBNA ZAŠTITA

PRVA POMOĆ

DODATNE INFORMACIJE





Conclusion – Main take aways

- ZERO harm – NO losses
- Awareness about the risks of handling hot bitumen
- Awareness about H₂S
 - Proper venting of tanks and confined space
 - Measuring H₂S presence and dosage
- Proper Personal Protective Equipment (PPE)
- Unloading process
- Don't climb on the top of the truck – ground based operated trucks!
- Stop, if jobs can't be done safe
- Visit Eurobitume website for more information

<https://www.eurobitume.eu/hse/health-safety/>

ŠTO JE H₂S?

H₂S je plin koji se može osloboditi iz vrućeg bitumena.

- H₂S ima prepoznatljiv miris „trulih jaja“, ali:
- H₂S može umrtviti njuh, pa miris nije pouzdan način za otkrivanje njegove prisutnosti.
- H₂S nadražuje, otrovan je i može uzrokovati mučnina, nesvjesticu i, u ekstremnim okolnostima, može biti i smrtonosan.

AKO SUMNJATE DA JE H₂S UTJECAO NA VAS ILI NEKU DRUGU OSOBU:

- Odmah napustite područje.
- Obavijestite rukovodstvo gradilišta.
- Nazovite hitnu službu.

UPRAVLJANJE OPASNOSTIMA OD H₂S TIJEKOM RUKOVANJA BITUMENOM

BUDITE PAŽLJIVI!
Nemojte se penjati u miris za otkrivanje H₂S.

OPASNOSTI TIJEKOM UTOVARA I ISTOVARA

- Bitumen može sadržavati H₂S koji se može nakupiti u cisternama tijekom skladištenja i transporta.
- H₂S se može osloboditi tijekom aktivnosti.
- H₂S je teži od zraka i može se skupljati u nižim područjima.

KAKO SMANJITI OPASNOST ZBOG H₂S?

Prilikom rada kod poklopca cisterne:

- Odbrađite ili ispuštite tlak iz cisterne ako trebate otvoriti poklopac.
- Otvorite poklopac i odmaknite se.
- Nemojte se naginjati nad poklopcem.
- Nemojte udišati pare.

Prilikom istovara bitno je da se vozilo upravlja sa poda.

BUDITE PAŽLJIVI!
Ulaganje u miris H₂S može biti opasno.

BUDITE PAŽLJIVI!
Nemojte se klatati opasno!

Legal Disclaimer

This presentation is prepared in order to outline our expression of interest. Nothing in this presentation shall be construed to create any legally binding obligations on any of the parties. Neither party shall be obligated to execute any agreement or otherwise enter into, complete or affect any transaction in relation to this presentation.

All figures and information in this presentation are strictly confidential, they are by no means binding and thus indicative only.

© 2022 OMV Downstream GmbH, all rights reserved, no reproduction without our explicit consent.



OMV